



NOAA TECHNICAL MEMORANDUM NMFS-SEFC-267

LIST OF THE FISHES OF THE WESTERN CENTRAL ATLANTIC  
AND THE STATUS OF EARLY LIFE STAGE INFORMATION

by

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**ABSTRACT:** All the species known to occur in the western central Atalntic are listed by family. The status of the knowledge of the identification of their early life history stages is given with pertinent literature citations. Also included are 54 illustrations of various larvae and juveniles.

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INTRODUCTION

Identification guides of the early life history of marine fishes have been published for the northeastern U.S. waters (Fahay 1983) and the northwestern U.S. waters (Matarese et al. 1989). In preparation of a similar guide for southeastern U. S. waters one of the first steps is to prepare a list of the species which have early life stages in the area and document the current knowledge on these stages. This study is the result of that first step to document the species in the area and the information on their early life stages. The area considered is the western central North Atlantic which encompasses U. S. territorial waters along the southeastern U. S. and Puerto Rico and the Virgin Islands. Since many of the species from these areas are also found outside of these territorial waters, a broader approach is taken encompassing this larger area so that the guide will be of value to a wider audience.

The western central North Atlantic Ocean for the purposes of this study is that geographical area bounded on the north by Cape Hatteras (longitude 35° N), eastward to longitude 50° W, south to the mouth of the Amazon River (the Equator), and the continental land masses on the south and west. I have developed this list from a number of sources including guides to the fishes of the region principally the FAO species identification sheets (Fischer 1978 and referred to in the tables as FAO list), Robins and Ray (1986), Ueyno et al. (1983), and primary literature which is cited for each family. The purpose of the list is twofold. First to document all species from the region which produce eggs, larvae, or juveniles which may be collected in the area, and second, to provide information on the status of the identification of those stages.

The list of species is by family and provides the following information: the species name and describer followed by an "x" if the "E" for egg, "L" for larvae, and "J" for juvenile stage is known. At the end of the list is a short literature section which is the documentation for both the inclusion of the species in the list and the source of the early life information. If only the author and year is given, the complete citation may be found in Moser et al. (1984). If not found in Moser et al. (1984), the complete citation is provided though not necessarily in each account. Four recent books, Leis and Rennis (1983), Leis and Trnski (1989), Ozawa (1986), and Okuyama (1988) should also be consulted. There are a few exceptions most notably the recent early life history information on eels is found in Fishes of the western North Atlantic, Memoir Number 1 of the Sears Foundation for Marine Research, Part 9, volumes 1 and 2, 1989 by various authors. For

citations for eels bearing 1989 those papers are found in those volumes. In many cases information on genera or families from outside of the area is known, but is not provided in the list which is for species only. The references for each family should be consulted together with Moser et al. (1984) as a companion volume to indicate what is known from outside of this geographic area. The families are listed alphabetically rather than in a classification. The list of families basically follows the concept of families as found in Moser et al. (1984) with a few exceptions. The families Sternopychidae, Gonostomatidae, and Photichthyidae are together under Sternopychidae because much of the ELH literature combines a mix of these species. An artificial family Leptocephali is listed for eel leptocephali which have not been referred to a family. The Peristediidae is given familial status because their larvae are very different from the Triglidae based on my unpublished research. Polyprion is placed in the Moronidae and Howella and Bathysphyraenops are placed in the Acropomatidae for convenience since Johnson (in Moser et al. 1984) did not assign them to a family.

Included in the list are 54 illustrations of various taxa drawn by J. C. Javech over the past few years. In the captions all of the OREGON II and SEAMAP stations are from the Gulf of Mexico.

The list is undoubtedly incomplete due to references overlooked by me and by the changing dynamics of fish taxonomy and zoogeography. Several colleagues have carefully reviewed this list and corrected many parts. I thank the following for their efforts: D. M. Cohen, C. R. Robins, J. L. Shultz, R. F. Shaw, M. M. Leiby, J. Ditty, J. V. Gartner, Jr., H. G. Moser, A. W. Kendall, Jr., M. P. Fahay, and D. F. Markle.

This publication is given limited distribution and I would appreciate any corrections or additions to it. A guide to the identification of the early life history stages is well along in its development and preliminary chapters are in preparation by several colleagues. One has appeared (Richards, 1989) and scientists are invited to cooperate in this undertaking. The complete guide is intended for the same series and format as Matarese et al. (1989) and preliminary chapters in the same series and format as Richards (1989).

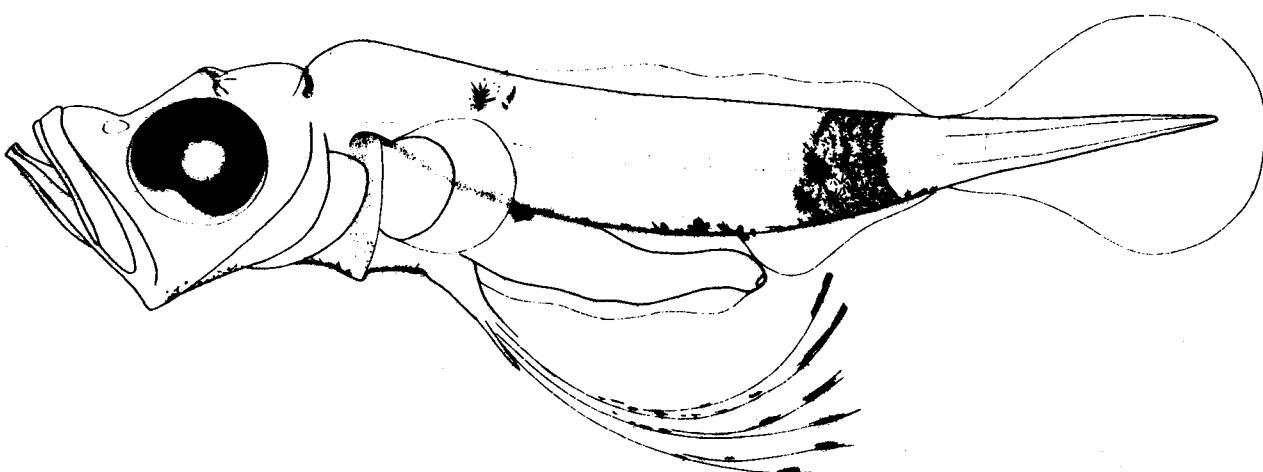


Fig. 1. Unidentified larva, 3.0 mm NL, OREGON II St. 45331.

## LITERATURE CITED

- Fahay, M. P. 1983. Guide to the early stages of marine fishes occurring in the western North Atlantic Ocean, Cape Hatteras to the southern Scotian Shelf. *Jour. Northw. Atl. Fish. Sci.* 4: 423 pp.
- Fischer, W. (ed.). 1978. FAO species identification sheets for the Western Central Atlantic (Fishing Area 31), FAO volumes 1-6: unpaginated.
- Leis, J. M. and D. S. Rennis. 1983. The larvae of Indo-Pacific coral reef fishes. University of Hawaii Press, 269 pp.
- Leis, J. M. and T. Trnski. 1989. The larvae of Indo-Pacific shorefishes. University of Hawaii Press, 371 pp.
- Matarese, A. C., A. W. Kendall, Jr., D. M. Blood, and B. M. Vinter. 1989. Laboratory guide to early life history stages of northeast Pacific fishes. NOAA Tech. Rep. NMFS 80: 652 pp.
- Moser, H. G., W. J. Richards, D. M. Cohen, M. P. Fahay, A. W. Kendall, Jr., and S. L. Richardson. (eds.). 1984. Ontogeny and systematics of fishes. Amer. Soc. Ichthyol. Herpetol. Spec. Publ. (1): 760 pp.
- Okiyama, M. (ed.). 1988. An atlas of the early stage fishes of Japan. Tokai Univ. Press, 1,157 pp.
- Ozawa, T. (ed.). 1986. Studies on the oceanic ichthyoplankton in the western Pacific. Kyushu Univ. Press, 430 pp.
- Richards, W. J. 1989. Preliminary guide to the identification of the early life history stages of scombrid fishes of the western central Atlantic. NOAA Tech. Mem. NMFS-SEFC-240: 101 pp.
- Robins, C. R. and G. C. Ray. 1986. A field guide to the Atlantic coast fishes of North America. The Peterson Field Guide Series (32), Houghton Mifflin Co., Boston. 354 pp.
- Ueyno, T., K. Matsuura, and E. Fujii. 1983. Fishes trawled off Suriname and French Guiana. Japan Mar. Fish. Resour. Res. Center, Tokyo. 519 pp.

## ACANTHURIDAE

Acanthurus bahianus Castelnau  
Acanthurus chirurgus (Bloch)  
Acanthurus coeruleus Schneider  
Acanthurus randalli Briggs & Caldwell

E L J  
x?x

Literature: Leis & Richards 1984

## ACROPOMATIDAE

Synagrops pseudomicrolepis Schultz  
Synagrops bellus (Goode & Bean)  
Synagrops spinosus Schultz  
Howella sherborni (Norman)  
Bathysphyraenops simplex Parr

E L J  
x x  
x x

## Literature:

Johnson 1984. Schultz, L.P. 1940. Two new genera and three new species of cheilodipterid fishes, with notes on the other genera of the family. Proc. U.S. Natn. Mus. 88(3085):403-413. Mochizuki, K. and S. Gultneh. 1989. Redescription of Synagrops spinosus (Percichthyidae) with its first record from the west Pacific. Jap. J. Ichthyol. 35(4):421-427. Fedoryako, B. I. 1976. Materials on the systematics and distribution of oceanic Cheilodipteridae. Trans. P. P. Shirshov Inst. Oceanol. 104:156-190. (In Russian).

## ALBULIDAE

Albula vulpes (Linnaeus)  
Albula nemoptera (Fowler)

E L J  
x x  
x x

Literature: Smith 1989

## ALEPISAURIDAE

Alepisaurus brevirostris Gibbs  
Alepisaurus ferox Lowe

E L J  
x  
x

## Literature:

Okiyama 1984; Rofen 1966b;

## ANGUILLIDAE

Anquilla anquilla (Linnaeus)  
Anquilla rostrata (Lesueur)

E L J  
X  
X X

Literature: Robins, C. R. & Smith, D. G. et al. 1989. Fishes of the western North Atlantic. Sears Fndn. Mar.Res. No. 1, Part 9, Vols. 1 & 2.

## ANOMALOPIDAE

Kryptophanaron alfredi Silvester & Fowler

E L J  
X

## Literature:

Colin, Arneson, & Smith-Vaniz. 1979. Bull. Mar. Sci., 29(3):312-319; Colin, P. L. 1989. Pages 83-85 in Leis & Trnski. The larvae of Indo-Pacific shorefishes. Univ. of Hawaii Press, Honolulu, 371 pp.

## ANOPLOGASTERIDAE

Anoplogaster cornuta (Valenciennes)

E L J  
X X

## Literature:

Keene & Tighe 1984; (Note - S. Richardson found two larval types in MCZ collections, Species have been described by Russians, reference not found)

## ANOPTERIDAE

Anotopterus pharao Zugmayer

E L J  
X

## Literature:

Okiyama 1984

	E L J
<u>ANTENNARIIDAE</u>	
<u>Histrio histrio</u> (Linnaeus)	x x x
<u>Antennarius striatus</u> (Shaw & Nodder)	
<u>Antennarius multiocellatus</u> (Valenciennes)	
<u>Antennarius ocellatus</u> (Bloch & Schneider)	x
<u>Antennarius radiosus</u> Garman	
<u>Antennarius bermudensis</u> Schultz	
<u>Antennarius pauciradiatus</u> Schultz	x

## Literature:

Pietsch 1984; Pietsch & Grobecker. 1987. Frogfishes of the World. Stanford Univ. Press. 420p.

	E L J
<u>APHYONIDAE</u>	
<u>Aphyonus</u> sp	-
<u>Barathronus bicolor</u> Goode & Bean	-
<u>Sciadonus</u> sp	-

## Literature:

Gordon et al. 1984; Cohen & Nielsen 1978. ovoviviparous.

	E L J
<u>APOGONIDAE</u>	
<u>Astrapogon alutus</u> (Jordan & Gilbert)	-
<u>Astapogon puncticulatus</u> (Poey)	-
<u>Astapogon stellatus</u> (Cope)	-
<u>Apogon binotatus</u> Poey	
<u>Apogon lachneri</u> Boehlke	
<u>Apogon maculatus</u> (Poey)	
<u>Apogon billionatus</u> Boehlke & Randall	
<u>Apogon planifrons</u> Longley & Hildebrand	
<u>Apogon pseudomaculatus</u> Longley	
<u>Apogon quadrisquamatus</u> Longley	
<u>Apogon robinsi</u> Boehlke & Randall	
<u>Apogon townsendi</u> (Bréder)	
<u>Apogon affinis</u> (Poey)	
<u>Apogon anisolepis</u> Boehlke & Randall	
<u>Apogon americanus</u> Castelnau	
<u>Apogon aurolineatus</u> (Mowbray)	
<u>Apogon leptocaulus</u> Gilbert	
<u>Apogon mosavi</u> Dale	
<u>Apogon phenax</u> Boehlke & Randall	-
<u>Phaeoptyx conklini</u> (Silvester)	-
<u>Phaeoptyx pigmentaria</u> (Poey)	-
<u>Phaeoptyx xenus</u> (Boehlke & Randall)	-

Literature: Johnson 1984. Robins et al 1986; FAO List- has errors.

## ARGENTINIDAE

	E L J
<u>Argentina silus</u> (Ascanius)	X X
<u>Argentina striata</u> Goode & Bean	
<u>Argentina brucei</u> Cohen & Atsaides	
<u>Argentina georgei</u> Cohen & Atsaides	
<u>Argentina stewarti</u> Cohen & Atsaides	
<u>Glossanodon polli</u> Cohen	X
<u>Glossanodon pygmaeus</u> Cohen	
<u>Microstoma microstoma</u> (Risso)	X X X
<u>Xenophthalmichthys danae</u> Regan	X
<u>Nansenia pelagica</u>	
<u>Nansenia longicauda</u>	

## Literature:

Schmidt 1906c, 1918; Holt 1898; Poll 1953; LoBianco 1903; Sanzo 1931d; Bertelsen 1958; Kawaguchi & Butler 1984; Cohen & Atsaides 1969. Fish.Bull. U.S. 68(1):13-36.

## ARIOMMIDAE

	E L J
<u>Ariomma bondi</u> Fowler	
<u>Ariomma melanum</u> (Ginsburg)	
<u>Ariomma regulus</u> (Poey)	x x

Literature: Haedrich 1967; Horn 1984

## ASTRONESTHIDAE

	E L J
<u>Astronesthes</u>	x
<u>Borostomias</u>	x
<u>Diplolychnus</u>	
<u>Heterophotus</u>	
<u>Rhadinesthes</u>	
<u>Neonesthes</u>	

## Literature:

Whitley 1941; Pertseva-Ostromova & Rass 1973; Kawaguchi & Moser 1984. Only genera listed because larvae are rare and difficult to identify to species because specific characters are based on barbel morphology.

## ATELEOPODIDAE

	E L J
<u>Ijimaia loppei</u> Roule	
<u>Ateleopus</u> sp.	

Literature: Uyeno, T., K. Matsuura, & E. Fujii. 1983. Fishes trawled off Suriname and French Guiana. Japan Marine Fishery Resource Research Center. Tokyo. 519 pp.

## ATHERINIDAE

E L J

- Hypoatherina harringtonensis (Goode)  
Atherinomorus stipes (Mueller & Troschel)  
Membras martinica (Valenciennes)  
Menidia beryllina (Cope) x  
Menidia peninsulae (Goode & Bean)  
Menidia conchorum Hildebrand & Ginsburg  
Menidia menidia (Linnaeus) x  
Adenops analis Schultz  
Adenops argenteus Schultz  
Allanetta araea (Jordan & Gilbert)  
Melaniris alvarezi Diaz-Pardo  
Melaniris beani (Meek & Hildebrand)  
Melaniris chagresi (Meek & Hildebrand)  
Melanorhinus microps (Poey)  
Menidiella colei Hubbs  
Xenolaniris brasiliensis (Quoy & Gaimard)

## Literature:

White, Lavenberg, & McGowen 1984. FAO List- some maybe freshwater only.

## AULOPIDAE

- Aulopus nanae Mead

E L J  
x x x

## Literature:

Okiyama 1974b

## AULOSTOMIDAE

- Aulostomus maculatus Valenciennes

E L J  
x

## Literature:

Fritzsche 1984; Walker in Leis & Trnski 1989

## BALISTIDAE

- Balistes capriscus Gmelin  
Balistes vetula Linnaeus  
Canthidermis maculatus (Bloch)  
Canthidermis sufflamen (Mitchill) x  
Melichthys niger (Bloch)  
Xanthichthys ringens (Linnaeus)

E L J  
x

## Literature:

Aboussouan & Leis 1984

## BARBOURIIDIADAE

Barbourisia rufa Parr

E L J

## Literature:

Keene & Tighe 1984; Tolley, Gartner, & Lancraft. 1989.  
 Whalefishes (Beryciformes:Cetomimoidei) of the Gulf of Mexico. Bull.  
 Mar. Sci. 45(3): 671-677.

## BATHYCLUPEIDAE

Bathycluspea argentea Goode & Bean  
Bathycluspea schroederi Dick

E L J

## Literature:

Dick, M. M. 1962. Bathycluspea schroederi, a new bathycluspeid fish  
 from the western tropical Atlantic. Breviora (167): 4pp.; Johnson 1984.

## BATHYLACONIDAE

Bathylaco nigricans Goode and Bean

E L J

## Literature:

none

## BATHYLAGIDAE

Bathylagus bericooides (Borodin)  
Bathylagus euryops Goode & Bean  
Bathylagus greyae Cohen  
Bathylagus longirostris Maul

E L J

X X

X X

Literature: Ahlstrom, Moser, & Cohen 1984

## BATHYSAURIDAE

Bathysaurus ferox Guenther  
Bathysaurus mollis Guenther

E L J

X

X

## Literature:

Okiyama 1984; Johnson 1974a

## BELONIDAE

	E L J
<u>Ablennes hians</u> (Valenciennes)	x x x
<u>Platybelone argalus</u> (Lesueur)	x x
<u>Strongylura marina</u> (Walbaum)	x x x
<u>Strongylura timicu</u> (Walbaum)	
<u>Strongylura notata</u> (Poey)	x
<u>Tylosurus acus</u> (Lacepede)	x x x
<u>Tylosurus crocodilus</u> (Peron & Lesueur)	x x x

## Literature:

Collette, McGowen, Parin & Mito 1984

## BERYCIDAE

	E L J
<u>Beryx decadactylus</u> Cuvier	x x
<u>Beryx splendens</u> Lowe	x x

## Literature:

Keene & Tighe 1984. Mundy, B.C. 1990. Bull. Mar. Sci. 46:257-273.

## BLENNIIDAE

	E L J
<u>Chasmodes bosquianus</u> (Lacepede)	x x x
<u>Chasmodes saburrae</u> Jordan & Gilbert	
<u>Entomacrodus nigricans</u> Gill	
<u>Hypseurochilus aequipinnis</u> (Guenther)	
<u>Hypseurochilus bermudensis</u> Beebe & TeeVan	
<u>Hypseurochilus geminatus</u> (Wood)	
<u>Hypseurochilus springeri</u> Randall	
<u>Hypsoblennius extochilus</u> Boehlke	
<u>Hypsoblennius hentzi</u> (LeSueur)	x x x
<u>Hypsoblennius ionthas</u> (Jordan & Gilbert)	
<u>Hypsoblennius invemar</u>	
<u>Lupinoblennius dispar</u> Herre	
<u>Lupinoblennius nicholsi</u> Tavolga	
<u>Omobranchus punctatus</u> (Valenciennes)	
<u>Ophioblennius atlanticus</u> (Valenciennes)	
<u>Parablennius marmoreus</u> (Poey)	x x
<u>Scartella cristata</u> (Linnaeus)	

Literature: Matarese et al 1984; FAO List; Robins, C. R. & G. C. Ray. 1986. A field guide to Atlantic coast fishes of North America. Peterson Field Guide Series No. 32. Houghton-Mifflin, Boston. 354 pp.

## BOTHIDAE

## E L J

<u>Ancylopsetta</u>	<u>antillarum</u>	Gutherz	
<u>Ancylopsetta</u>	<u>cycloidea</u>	Tyler	
<u>Ancylopsetta</u>	<u>dilecta</u>	(Goode & Bean)	
<u>Ancylopsetta</u>	<u>kumperae</u>	Tyler	
<u>Ancylopsetta</u>	<u>microctenus</u>	Gutherz	
<u>Ancylopsetta</u>	<u>quadrocellata</u>	Gill	
<u>Bothus</u>	<u>lunatus</u>	(Linnaeus)	
<u>Bothus</u>	<u>maculiferus</u>	(Poey in Jordan & Goss)	
<u>Bothus</u>	<u>ocellatus</u>	(Agassiz)	x x
<u>Bothus</u>	<u>robinsi</u>	Jutare in Topp & Hoff	x x
<u>Chascanopsetta</u>	<u>lugubris</u>	Alcock	x x
<u>Chascanopsetta</u>	<u>prorigera</u>	Gilbert	
<u>Citharichthys</u>	<u>abbotti</u>	Dawson	
<u>Citharichthys</u>	<u>amblyregmatus</u>	Gutherz & Blackman	
<u>Citharichthys</u>	<u>arctifrons</u>	Goode	x x
<u>Citharichthys</u>	<u>arenaceus</u>	Evermann & Marsh	
<u>Citharichthys</u>	<u>cornutus</u>	(Guenther)	x
<u>Citharichthys</u>	<u>dinoceros</u>	Goode & Bean	
<u>Citharichthys</u>	<u>gymnorhinus</u>	Gutherz & Blackman	x
<u>Citharichthys</u>	<u>macrops</u>	Dresel	x
<u>Citharichthys</u>	<u>spilopterus</u>	Guenther	
<u>Citharichthys</u>	<u>uhleri</u>	Jordan in Jordan & Goss	
<u>Cyclopsetta</u>	<u>chittendeni</u>	Bean	x x
<u>Cyclopsetta</u>	<u>fimbriata</u>	(Goode & Bean)	
<u>Engyophrys</u>	<u>senta</u>	Ginsburg	x x
<u>Etropus</u>	<u>crossotus</u>	Jordan & Gilbert	x x
<u>Etropus</u>	<u>delsmani</u>	Chabanaud	
<u>Etropus</u>	<u>microstomus</u>	(Gill)	x x
<u>Etropus</u>	<u>cyclosquamus</u>	Leslie & Stewart	
<u>Etropus</u>	<u>rimosus</u>	Goode & Bean	
<u>Gastropsetta</u>	<u>frontalis</u>	Bean	
<u>Hippoglossina</u>	<u>oblonga</u>	(Mitchill)	x x x
<u>Monolene</u>	<u>antillarum</u>	Norman	
<u>Monolene</u>	<u>atrimana</u>	Goode & Bean	
<u>Monolene</u>	<u>megalepis</u>	Woods	
<u>Monolene</u>	<u>sessilicauda</u>	Goode	x x
<u>Paralichthys</u>	<u>albiquitta</u>	Jordan & Gilbert	
<u>Paralichthys</u>	<u>dentatus</u>	(Linnaeus)	x x x
<u>Paralichthys</u>	<u>lethostigma</u>	Jordan & Gilbert	
<u>Paralichthys</u>	<u>squamilentus</u>	Jordan & Gilbert	
<u>Paralichthys</u>	<u>tropicus</u>	Ginsburg	
<u>Scophthalmus</u>	<u>aquosus</u>	(Mitchill)	x x x
<u>Syacium</u>	<u>gunteri</u>	Ginsburg	
<u>Syacium</u>	<u>micrurum</u>	Ranzani	
<u>Syacium</u>	<u>papillosum</u>	(Linnaeus)	x x
<u>Trichopsetta</u>	<u>carribaea</u>	Anderson & Gutherz	
<u>Trichopsetta</u>	<u>melasma</u>	Anderson & Gutherz	
<u>Trichopsetta</u>	<u>orbisculus</u>	Anderson & Gutherz	
<u>Trichopsetta</u>	<u>ventralis</u>	(Goode & Bean)	x x

Literature: Ahlstrom et al. 1984; A. J. Leslie, jr. and D. J. Stewart. 1986. Systematics and distributional ecology of Etropus (Pisces, Bothidae) on the Atlantic coast of the United States with description of a new species. Copeia 1986 (1):140-156.

## BRAMIDAE

	E	L	J
<u>Brama brama</u> (Bonnaterre)	x	x	
<u>Brama caribbea</u> Mead	x	x	
<u>Brama dussumieri</u> Cuvier	x	x	
<u>Eumegistius brevorti</u> (Poey)	x	x	
<u>Pterycombus brama</u> Fries			
<u>Pteraclis carolinus</u> Valenciennes	x	x	
<u>Taractes asper</u> Lowe		x	
<u>Taractes rubescens</u> (Jordan & Evermann)		x	
<u>Taractichthys longipinnis</u> (Lowe)	x	x	

Literature: Johnson 1984. Mead 1972.

## BREGMACEROTIDAE

	E	L	J
<u>Bregmaceros atlanticus</u> Goode & Bean	x	x	
<u>Bregmaceros macclellandi</u> Thompson	x	x	
<u>Bregmaceros cantori</u> Milliken & Houde	x	x	
<u>Bregmaceros houdei</u> Saksena & Richards	x	x	

Literature:

Houde 1984; Saksena & Richards. 1986. Bull. Mar. Sci. 38(2):285-292.

## BYTHITIDAE

	E	L	J
<u>Bythites gerdae</u> Nielsen & Cohen	-		
<u>Calamopteryx goslinei</u> Boehlke & Cohen	-		
<u>Calamopteryx robinsorum</u> Cohen	-		
<u>Cataetyx laticeps</u> Kofoed	-		
<u>Cataetyx</u> sp.	-	x	
<u>Diplacanthopoma brachysoma</u> Guenther	-		
<u>Oligopus claudaei</u> (Torre)	-		
<u>Saccogaster staigeri</u> Cohen & Nielsen	-		
<u>Saccogaster parva</u> Cohen & Nielsen	-		
<u>Saccogaster rhamphidognatha</u> Cohen	-		
<u>Saccogaster melanomycter</u> Cohen	-		
<u>Stygnobrotula latebricola</u> Boehlke	-		
<u>Thalassobathia pelagica</u> Cohen	-		
<u>Lucifuga simile</u> Nalbant	-		
<u>Lucifuga subterraneus</u> Poey	-		
<u>Lucifuga dentatus</u> Poey	-		
<u>Lucifuga spelaeotes</u> Cohen & Robins	-		
<u>Dinematichthys minyomma</u> Sedor & Cohen	-		
<u>Gunterichthys longipenis</u> Dawson	-		
<u>Ogilbia cayorum</u> Evermann & Kendall	-		
<u>Ogilbia verrillii</u> (Garman)	-		
<u>Ogilbia</u> spp.(ca. 14)	-		

Literature:

Gordon et al. 1984; Cohen & Nielsen 1978; Sabates,A. & J.M. Fortuno. 1988. Description de deux larves de Cataetyx Guenther, 1887 (Pisces, Bythitidae) recoltees en Mer Catalane. Cybium 12(1):67-71.

## CALLIONYMIIDAE

E L J

- |                    |                              |
|--------------------|------------------------------|
| <u>Callionymus</u> | <u>agassizi</u> Goode & Bean |
| <u>Callionymus</u> | <u>bairdi</u> Jordan         |
| <u>Callionymus</u> | <u>pauciradiatus</u> Gill    |
| <u>Centrodraco</u> | <u>acanthopoma</u> (Regan)   |
| <u>Centrodraco</u> | sp.                          |

## Literature:

Houde 1984; K. Hartel (pers. comm.)

## CAPROIDAE

Antigonia capros Lowe  
Antigonia combatia Berry & Rathjen

E L J  
X X X

#### Literature:

Tighe & Keene 1984

## CARANGIDAE

<u>Alectis ciliaris</u> (Bloch)	x x
<u>Caranx bartholomaei</u> Cuvier	x x
<u>Caranx crysos</u> (Mitchill)	x x
<u>Caranx hippos</u> (Linnaeus)	x x
<u>Caranx latus</u> Agassiz	x x
<u>Caranx lugubris</u> Poey	x x
<u>Caranx ruber</u> (Bloch)	x x
<u>Chloroscombrus chrysurus</u> (Linnaeus)	x x
<u>Decapterus macarellus</u> (Cuvier)	x x
<u>Decapterus punctatus</u> (Cuvier)	x x
<u>Decapterus tabl</u> Berry	x x
<u>Elagatis bipinnulatus</u> (Quoy & Gaimard)	x x
<u>Hemicaranx amblyrhynchus</u> (Cuvier)	x x
<u>Naucrates ductor</u> (Linnaeus)	x x
<u>Oligoplites palometta</u> (Cuvier)	x x
<u>Oligoplites saliens</u> (Bloch)	x x
<u>Oligoplites saurus</u> (Schneider)	x x
<u>Pseudocaranx dentex</u> (Bloch & Schneider)	x x
<u>Selar crumenophthalmus</u> (Bloch)	x x
<u>Selene setapinnis</u> (Mitchill)	x x
<u>Selene spixii</u> (Swainson)	x x
<u>Selene vomer</u> (Linnaeus)	x x
<u>Seriola dumerili</u> (Risso)	x x
<u>Seriola fasciata</u> (Bloch)	x x
<u>Seriola rivoliana</u> Cuvier	x x
<u>Seriola zonata</u> (Mitchill)	x x
<u>Trachinotus carolinus</u> (Linnaeus)	x x
<u>Trachinotus cayennensis</u> Cuvier	x x
<u>Trachinotus falcatus</u> (Linnaeus)	x x
<u>Trachinotus goodei</u> Jordan & Evermann	x x
<u>Trachurus lathami</u> Nichols	x x
<u>Uraspis secunda</u> (Poey)	x x

Literature: Laroche et al. 1984. FAO list

## CARAPIDAE

E L J

<u>Snyderidria canina</u> Gilbert, 1905	x x
<u>Echiodon dawsoni</u> Williams, 1982	x x
<u>Carapus bermudensis</u> (Jones, 1874)	x x

## Literature:

Gordon, Olney, & Markle 1984; Markle & Olney. In Press.  
 Systematics of the pearlfishes (Pisces: Carapidae). Bull. Mar. Sci.  
 Markle, D. F. and J. E. Olney. 1980. A description of the vexillifer  
 larvae of Pyramodon ventralis and Snyderidria canina (Pisces: Carapidae)  
 with comments on classification. Pac. Sci. 34(2):173-180.  
 Olney, J. E. and D. F. Markle. 1979. Description and occurrence of  
 vexillifer larvae of Echiodon (Pisces: Carapidae) in the western North  
 Atlantic and notes on other carapid vexillifers. Bull. Mar. Sci.  
 29(3):365-379.

## CARISTIDAE

E L J

<u>Caristius</u> sp.	x
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## Literature:

Johnson 1984; poorly known from area.

## CAULOPHRYNIDAE

E L J

<u>Caulophryne jordani</u> Goode & Bean	x x
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## Literature:

Bertelsen 1984

## CENTRISCIDAE

E L J

<u>Macrorhamphosus gracilis</u> (Lowe)	x
<u>Macrorhamphosus scolopax</u> (Linnaeus)	x x x

## Literature:

Fritzsche 1984

CENTROLOPHIDAE	E L J
<u>Centrolophus niger</u> (Gmelin)	x
<u>Hyperglyphe perciformis</u> (Mitchill)	
<u>Hyperglyphe bythites</u> (Ginsburg)	
<u>Schedophilus medusophagus</u> Cocco	
<u>Schedophilus ovalis</u> (Valenciennes)	x

Literature: Horn 1984; Padoa 1956b; Haedrich 1967 lists S. ventralis (Bean, 1912) from Bermuda and notes that Fowler (1936. The marine fishes of West Africa, based on the collection of the American Museum Congo Expedition, 1909-1915. Part II. Bull. Amer. Mus. Nat. Hist. 80(2):609-1493.) synonymized it with ovalis.

CENTROPHRYNIDAE	E L J
<u>Centrophryne spinulosa</u> Regan & Trewavas	x

Literature:  
Bertelsen 1951

CENTROPOMIDAE	E L J
<u>Centropomus ensiferus</u> Poey	
<u>Centropomus parallelus</u> Poey	
<u>Centropomus pectinatus</u> Poey	
<u>Centropomus undecimalis</u> (Bloch)	x x
<u>Centropomus poeyi</u> Chavez	
<u>Centropomus mexicanus</u>	

Literature:  
Johnson 1984; Potthoff ms describing snook larval osteology

CEPOLIIDAE	E L J
<u>Cepola</u> sp.	

Literature:  
Johnson, G.D. & W.F. Smith-Vaniz. 1987. Bull. Mar. Sci. 40(1):48-58. One specimen from Bermuda.

CERATIIIDAE	E L J
<u>Ceratias holboelli</u> Kroeyer	x x
<u>Ceratias uranoscopus</u> Murray	
<u>Cryptosar as couesi</u> Gill	x x

Literature:  
Pietsch. 1986. Copeia (2):479-493. Bertelsen. 1984.

## CETOMIMIDAE

E L J

- Cetomimus gilli Goode & Bean  
Cetomimus hempeli Maul  
Cetostoma regani (Zugmayer)  
Ditropichthys storeri (Goode & Bean)  
Gyrinomimus simplex Parr  
Gyrinomimus myersi Parr  
Danaceticthys galathenus Paxton

## Literature:

Keene & Tighe 1984; Paxton, J. R. 1989. Synopsis of the whalefishes (Family Cetomimidae) with descriptions of four new species. Rec. Aust. Mus. 41: 135-206; Tolley, Gartner, & Lancraft. 1989. Bull. Mar. Sci. 45:671-677.

## CHAENOPSIDAE

E L J

- Acanthemblemaria aspera (Longley)  
Acanthemblemaria betinensis Smith-Vaniz & Palacio  
Acnathemblemaria chaplini Boehlke  
Acnathemblemaria greenfieldi Smith-Vaniz & Palacio  
Acanthemblemaria maria Boehlke  
Acanthemblemaria medusa Smith-Vaniz & Palacio  
Acanthemblemaria paula Jounson & Brothers  
Acanthemblemaria rivasi Stephens  
Acanthemblemaria spinosa Metzelaar  
Chaenopsis limbaughi Robins & Randall  
Chaenopsis ocellata Poey  
Chaenopsis resh Robins & Randall  
Chaenopsis stephensi Robins & Randall  
Coralliozetus cardonae Evermann & Marsh  
Eklembemaria nigra (Meek & Hildebrand)  
Emblemaria atlantica Jordan & Evermann  
Emblemaria biocellata Stephens  
Emblemaria caldwelli Stephens  
Emblemaria culmensis Stephens  
Emblemaria diphyodontis Stephens & Cervigon  
Emblemaria hyltoni Johnson & Greenfield  
Emblemaria pandionis Evermann & Marsh  
Emblemaria piratula Ginsburg & Reid  
Emblemariopsis bahamensis Stephens  
Emblemariopsis bottomei Stephens  
Emblemariopsis diaphana Longley  
Emblemariopsis leptocirris Stephens  
Emblemariopsis occidentalis Stephens  
Emblemariopsis pricei Greenfield  
Emblemariopsis randalli Cervigon  
Emblemariopsis signifera (Ginsburg)  
Hemiemblemaria simulus Longley & Hildebrand  
Lucayablennius zingaro Boehlke  
Protemblemaria punctata Cervigon

## Literature:

Matarese et al. 1984; FAO List; G. D. Johnson & E. B. Brothers. 1989. Acanthemblemaria paula, a new diminutive chaenopsid (Pisces: Blennioidei) from Belize, with comments on life history. Proc. Biol. Soc. Wash. 102(4):1018-1030.

## CHAETODONTIDAE

E L J

- Chaetodon aculeatus (Poey)  
Chaetodon aya Jordan  
Chaetodon capistratus Linnaeus  
Chaetodon guyanensis Durand  
Chaetodon ocellatus Bloch  
Chaetodon sedentarius Poey  
Chaetodon striatus Linnaeus

Literature: Johnson 1984

## CHAULIODONTIDAE

E L J  
X  
XX

- Chauliodus danae Regan & Trewavas  
Chauliodus sloani Bloch & Schneider

Literature:

Kawaguchi &amp; Moser 1984; Belyanina 1977; Sanzo 1915a, 1931d; Mito 1961a

## CHAUNACIDAE

E L J

- Bathychaunax roseus (Barbour)  
Chaunax pictus Lowe  
Chaunax suttkusi Caruso  
Chaunax stigmaeus Fowler

Literature:

Pietsch 1984. Caruso, J.H. 1989. Systematics and distribution of the Atlantic anglerfishes (Pisces:Lophiiformes). Copeia 1988(1):153-165.

## CHIASMODONTIDAE

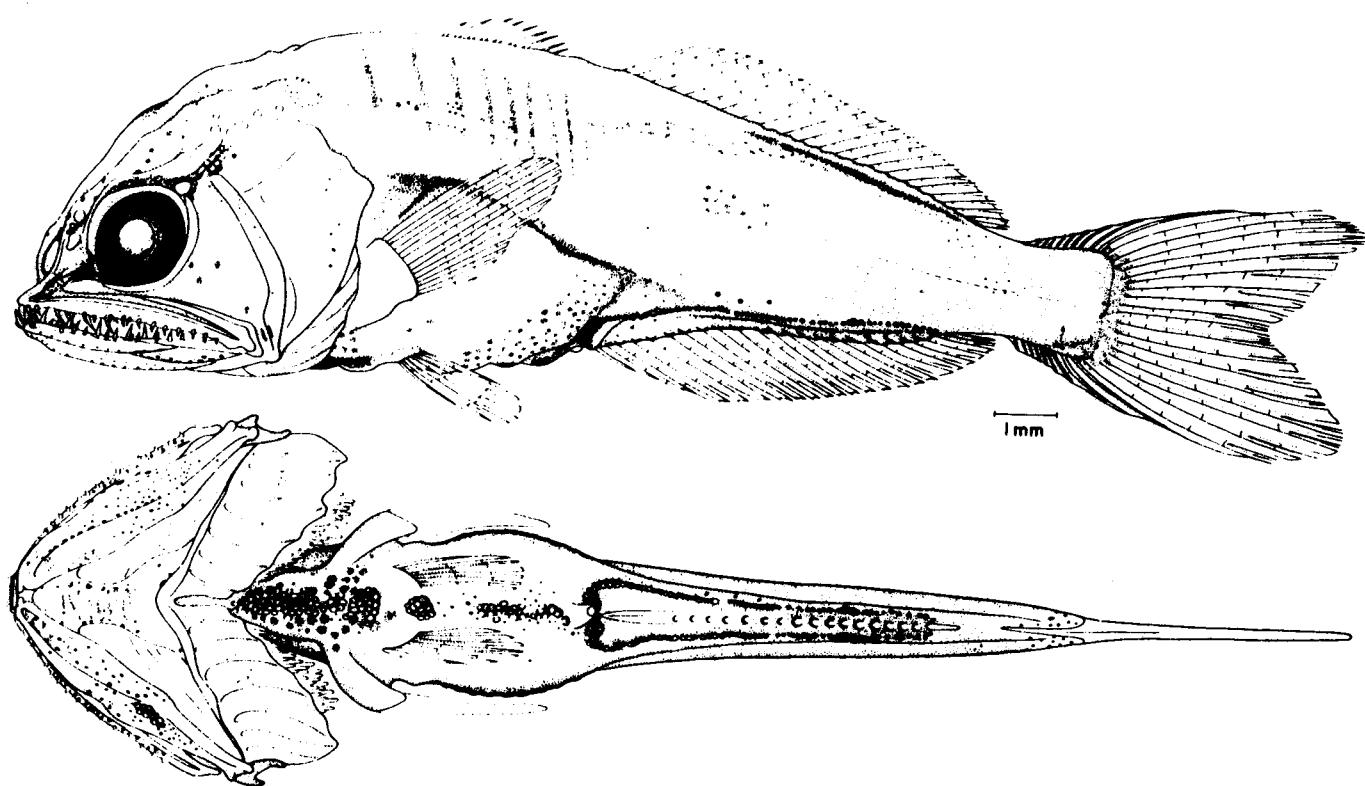
E L J  
XX  
X

- Chiasmodon niger Johnson  
Pseudoscopelus altipinnis Parr  
Pseudoscopelus scriptus Luetken  
Dysalotus alcocki MacGilchrist  
Kali indica Lloyd  
Kali macrura (Parr)  
Kali macrodon (Norman)  
Kali normani (Parr)

Literature:

Johnson, R.K. & D. M. Cohen 1974; Johnson, R.K. 1969. Copeia (2):386-391. Norman, J.R. 1929; Fowler, H.W. 1934; Uyeno et al. 1983.

Fig. 2. Pseudoscopelus scriptus, 16.5 mm SL, SEAMAP St. 353.



## CHLOPSIDAE

E L J

<u>Linkenchelys multipora</u> Smith	
<u>Robinsia catherinae</u> Boehlke & Smith	x
<u>Catesbya pseudomuraena</u> Boehlke & Smith	x
<u>Chilorhinus suensonii</u> Luetken	x
<u>Kaupichthys hyoproroidea</u> (Stroemman)	x
<u>Kaupichthys nuchalis</u> Boehlke	x
<u>Chlopsis bicolor</u> Rafinesque	x
<u>Chlopsis dentatus</u> (Seale)	x
<u>Chlopsis</u> sp.	x

Literature: Smith 1989

## CHLOROPHTHALMIDAE

E L J

<u>Chlorophthalmus agassizi</u> Bonaparte	x?
<u>Chlorophthalmus brasiliensis</u> Mead	
<u>Parasudis truculenta</u> (Goode & Bean)	

Literature:

Taanning 1918; Okiyama 1984

## CIRRHITIDAE

E L J

<u>Amblycirrhitus pinos</u> (Mowbray)	x x
<u>Amblycirrhitus</u>	

Literature:

Johnson 1984; n. sp. from P.R.

CLUPEIDAE	E	L	J
<u>Sardinella aurita</u> Valenciennes	x	x	x
<u>Sardinella brasiliensis</u> (Steindachner)		x	x
<u>Opisthonema oglinum</u> (Lesueur)	x	x	x
<u>Opisthonema captivai</u> Rivas		x	x
<u>Harenquia humeralis</u> (Cuvier)			
<u>Harenquia clupeola</u> (Cuvier)			
<u>Harenquia jaquana</u> Poey	x	x	x
<u>Etrumeus teres</u> (DeKay)	x	x	x
<u>Jenkinsia lamprotaenia</u> (Gosse)			x
<u>Jenkinsia stolifera</u> (Jordan & Gilbert)			
<u>Jenkinsia parvula</u> ?			
<u>Jenkinsia majua</u> Whitehead			
<u>Brevoortia gunteri</u> Hildebrand	x	x	x
<u>Brevoortia patronus</u> Goode		x	x
<u>Brevoortia smithi</u> Hildebrand		x	x
<u>Brevoortia tyrannus</u> (Latrobe)	x	x	x
<u>Pellona harroweri</u> (Fowler)			
<u>Odontognathus compressus</u> Meek & Hildebrand			
<u>Odontognathus micronatus</u> Lacepede			
<u>Chirocentrodon bleekerianus</u> (Poey)			
<u>Lile piquitinga</u> (Schreiner & Ribeiro)			

## Literature:

Jones et al. 1978; Houde & Fore 1973; Matsuura 1975; Richards et al. 1974; Houde et al 1974; Mito 1961a; Powles 1977; Houde & Swanson 1975.

COLOCONGRIDAE	E	L	J
<u>Coloconger meadi</u> Kanazawa		x	

## Literature: Smith 1989

## CONGRIDAE

	E	L	J
<u>Heteroconger halis</u> (Boehlke)	x		
<u>Heteroconger luteolus</u> Smith	x		
<u>Heteroconger camelopardalis</u> (Lubbock)	x		?
<u>Ariosoma balearicum</u> (Delaroche)	x		
<u>Ariosoma selenops</u> Reid	x		
<u>Ariosoma coquettei</u> Smith & Kanazawa	x		
<u>Ariosoma analis</u> Poey	x		
<u>Parabathymyrus oregoni</u> Smith & Kanazawa	x		
<u>Paraconger caudilimbatus</u> (Poey)	x		
<u>Paraconger quianensis</u> Kanazawa	x?		
<u>Paraconger</u> sp.	x?		
<u>Conger oceanicus</u> (Mitchill)	x?		
<u>Conger esculentus</u> Poey	x		
<u>Conger triporiceps</u> Kanazawa	x		
<u>Gnathophis bathytopos</u> Smith & Kanazawa	x		
<u>Gnathophis bracheatopos</u> Smith & Kanazawa	x?		
<u>Gnathophis tritos</u> Smith & Kanazawa	x?		
<u>Rhynchoconger gracilior</u> (Ginsburg)	x?		
<u>Rhynchoconger flavus</u> (Goode & Bean)	x		
<u>Rhynchoconger guppyi</u> (Norman)	x		
<u>Rhechias dubia</u> (Breder)	x?		
<u>Rhechias thysanichila</u> (Reid)	x		
<u>Rhechias bullisi</u> Smith & Kanazawa	x		
<u>Rhechias vicinalis</u> (Garman)	x		
<u>Rhechias polypora</u> Smith & Kanazawa	x		
<u>Bathyuroconger vicinus</u> (Vaillant)	x?		
<u>Uroconger syringinus</u> Ginsburg	x		
<u>Japononconger caribbeus</u> Smith & Kanazawa	x		
<u>Pseudophichthys splendens</u> (Lea)	x		
<u>Acromycter perturbator</u> (Parr)	x		
<u>Acromycter atlanticus</u> Smith	x		
<u>Xenomystax austrinus</u> Smith & Kanazawa	x		
<u>Xenomystax bidentatus</u> (Reid)	x		
<u>Xenomystax congroides</u> Smith & Kanazawa	x		

Literature: Smith 1989; Smith 1989

## CORYPHAEINIDAE

	E	L	J
<u>Coryphaena equisetis</u> Linnaeus	x		
<u>Coryphaena hippurus</u> Linnaeus	x	x	

Literature: Johnson 1984

## CYCLOPTERIDAE

	E	L	J
<u>Cyclopterus lumpus</u> Linnaeus	x	x	x

Literature: Able et al 1984 (this species occurs at Bermuda, all others in family are northern with only one, Liparis inquelinus Able, reaching C.Hatteras).

## CYEMATIDAE

E L J

- Cyema atrum Guenther  
Leptocephalus holti Schmidt

x

x

Literature: Smith 1989; Smith 1989

## CYNOGLOSSIDAE

E L J

- Syphurus arawak Robins & Randall  
Syphurus civitatum Ginsburg  
Syphurus diomedianus (Goode & Bean)  
Syphurus marginatus Goode & Bean  
Syphurus minor Ginsburg  
Syphurus nebulosus (Goode & Bean)  
Syphurus ommaspilus Boehlke  
Syphurus parvus Ginsburg  
Syphurus pelicanus Ginsburg  
Syphurus piger (Goode & Bean)  
Syphurus plagiusa (Linnaeus)  
Syphurus plaqusia (Bloch & Schneider)  
Syphurus pusillus (Goode & Bean)  
Syphurus rhytisma Boehlke  
Syphurus urospilus Ginsburg

x x

Literature: Ahlstrom et al. 1984

## DACTYLOPTERIDAE

E L J  
x x

- Dactylopterus volitans (Linnaeus)

Literature:

- Washington et al 1984

## DACTYLOSCOPIDAE

E L J

- Dactylagnus peratikos Boehlke & Caldwell  
Dactyloscopus crossotus Starks  
Dactyloscopus poeyi Gill  
Dactyloscopus tridigitatus Gill  
Gillellus greyaee Kanazawa  
Gillellus uranidea Boehlke  
Leurochilus acon Boehlke  
Myxodagnus belone Boehlke  
Platygillellus rubrocinctus (Longley)

Literature: FAO List

## DERICHTHYIDAE

E L J

- Derichthys serpentinus Gill  
Nessorhamphus ingolfianus (Schmidt)  
Nessorhamphus danae Schmidt

x

x

x

Literature: Robins 1989; Smith 1989

## DICERATIIDAE

E L J

Laevoceratias liparis Parr

## Literature:

Bertelsen 1984, 1951

## DIODONTIDAE

E L J

Diodon eydouxii Brissout de Barneville  
Diodon holocanthus Linnaeus  
Diodon hystrix Linnaeus  
Chilomycterus antennatus (Cuvier)  
Chilomycterus antillarum Jordan & Rutter  
Chilomycterus atinga (Linnaeus)  
Chilomycterus schoepfi (Walbaum)

x x x

x x x

## Literature:

Leis 1984; Leis 1979. Fish. Bull. U.S. 76:545.

## DIRETMIDAE

E L J

Diretmus argenteus Johnson  
Diretmoides pauciradiatus (Woods)  
Diretmoides parini Post & Quero

x x

x

## Literature:

Keene &amp; Tighe 1984; Post 1986. Pages 414-415 in Smith's Sea Fishes

## ECHENEIDIDAE

E L J

x x

Echeneis naucrates Linnaeus  
Echeneis neucratoides Zuieuw  
Phtheirichthys lineatus (Menzies)  
Remora australis (Bennett)  
Remora brachyptera (Lowe)  
Remora osteochir (Cuvier)  
Remora remora (Linnaeus)  
Remorina albescens (Temminck & Schlegel)

## Literature: Johnson 1984

## ELECTRIDAE

E L J

x x

Eleotris pisonis (Gmelin)  
Erotelis smaragdus (Valenciennes)

x x

## Literature: Ruple 1984

	E L J
<u>ELOPIDAE</u>	
<u>Elops saurus</u> (Linnaeus)	x x
<u>Elops</u> sp.	x
<u>Megalops atlanticus</u> Valenciennes	x x

Literature: Smith 1989

	E L J
<u>EMMELICHTHYIDAE</u>	
<u>Erythrocles monodi</u> Poll & Cadenat	x?

Literature: Johnson 1984

	E L J
<u>ENGRAULIDAE</u>	
<u>Engraulis eurystole</u> (Swain & Meek, 1884)	
<u>Anchoviella blackburni</u> Hildebrand, 1943	
<u>Anchoviella brevirostris</u> (Guenther, 1868)	
<u>Anchoviella cayennensis</u> (Puyo, 1945)	
<u>Anchoviella elongata</u> (Meek & Hildebrand, 1923)	
<u>Anchoviella guianensis</u> (Eigenmann, 1912)	
<u>Anchoviella lepidentostole</u> (Fowler, 1911)	
<u>Anchoviella perfasciata</u> (Poey, 1860)	
<u>Anchoa cayorum</u> (Fowler, 1906)	
<u>Anchoa choerostoma</u> (Goode, 1874)	
<u>Anchoa colonensis</u> Hildebrand, 1943	
<u>Anchoa cubana</u> (Poey, 1868)	
<u>Anchoa filifera</u> (Fowler, 1915)	
<u>Anchoa hepsetus</u> (Linnaeus, 1758)	x x x
<u>Anchoa januaria</u> (Steindachner, 1880)	
<u>Anchoa lamprotaenia</u> Hildebrand, 1943	
<u>Anchoa lyolepis</u> (Evermann & Marsh, 1902)	
<u>Anchoa mitchilli</u> (Valenciennes, 1848)	x x x
<u>Anchoa parva</u> (Meek & Hildebrand, 1923)	
<u>Anchoa spinifer</u> (Valenciennes, 1848)	
<u>Anchoa trinitatis</u> (Fowler, 1915)	
<u>Anchovia clupeoides</u> (Swainson, 1839)	
<u>Anchovia surinamensis</u> (Bleeker, 1866)	
<u>Cetengraulis edentulus</u> (Cuvier, 1829)	
<u>Pterengraulis atherinoides</u> (Linnaeus, 1766)	
<u>Lycengraulis grossidens</u> (Agassiz, 1829)	x x x

Literature:

Whitehead, P.J.P., G.J. Nelson, and T. Wongratana. 1988. Clupeoid fishes of the World (Suborder Clupeoidei). An annotated and illustrated catalogue of the herrings, sardines, pilchards, sprats, shads, anchovies and wolf-herrings. Part 2 - Engraulididae. FAO Fish. Synop. No.125. 7(2):579p. Larval ref: Jones et al 1978; Phonlor, 1978.

## EPHIPPIIDAE

Chaetodipterus faber (Broussonet)E L J  
x x x

Literature: Johnson 1984

## EPIGONIDAE

Epigonus denticulatus Dieuzeide  
Epigonus macrops (Brauer)  
Epigonus occidentalis Goode & Bean  
Epigonus oligolepis Mayer  
Epigonus pandionis (Goode & Bean)  
Epigonus pectinifer Mayer  
Epigonus telescopus (Risso)  
Sphyraenops bairdiana Poey

E L J

x?

x?

x

Literature:

Johnson 1984; FAO List.

## EURYPHARYNGIDAE

Eurypharynx pelecanoides VaillantE L J  
x

Literature: Smith 1989; Smith 1989

## EVERMANNELLIDAE

Odontostomops normalops (Parr)  
Coccarella atlantica (Parr)  
Evermannella balbo (Risso)  
Evermannella indica Brauer

E L J  
x x  
x x  
x x  
x x

Literature:

Okiyama 1984; Johnson 1982, 1984

## EXOCOETIDAE

E L J

<u>Chriodorus atherinoides</u> Goode & Bean	
<u>Euleptorhamphus velox</u> Poey	
<u>Hemiramphus balao</u> Lesueur	
<u>Hemiramphus brasiliensis</u> (Linnaeus)	
<u>Hyporhamphus unifasciatus</u> (Ranzani)	
<u>Exocoetus obtusirostris</u> Guenther	x
<u>Exocoetus volitans</u> Linnaeus	x x
<u>Oxyporhamphus micropterus</u> (Valenciennes)	x x
<u>Parexocoetus brachypterus</u> (Richardson)	x x x
<u>Cypselurus comatus</u> (Mitchill)	x x
<u>Cypselurus cyanopterus</u> (Valenciennes)	x
<u>Cypselurus exsiliens</u> (Linnaeus)	x
<u>Cypselurus furcatus</u> (Mitchill)	x
<u>Cypselurus melanurus</u> (Valenciennes)	x
<u>Cypselurus heterurus</u> (Rafinesque)	x x
<u>Hirundichthys affinis</u> (Guenther)	x x
<u>Hirundichthys rondeleti</u> (Valenciennes)	x x
<u>Prognichthys gibbifrons</u> (Valenciennes)	x

## Literature:

Collette, McGowen, Parin &amp; Mito 1984

Note- Collette et al. 1984 use Cheilopogon for some Cypselurus

## FISTULARIIDAE

E L J

<u>Fistularia tabacaria</u> Linnaeus	x x
<u>Fistularia petimba</u> Lacepede	x x x

## Literature:

Fritzsche 1984

## GADIDAE

E L J

<u>Enchelyopus cimbrius</u> (Linnaeus)	
<u>Phycis chesteri</u> (Goode & Bean)	
<u>Urophycis cirrata</u> (Goode & Bean)	
<u>Urophycis floridana</u> (Bean & Dresel)	x x
<u>Urophycis regia</u> (Walbaum)	
<u>Urophycis earlli</u> (Bean)	x x
<u>Urophycis tenuis</u> (Mitchill)	

## Literature:

Fahay &amp; Markle 1984

GEMPYLIDAE	E	L	J
<u>Diplospinus multistriatus</u> Maul	x	x	
<u>Epinnula magistralis</u> Poey	x	x	
<u>Gempylus serpens</u> Cuvier	x	x	
<u>Lepidocybium flavobrunneum</u> (Smith)	x	x	
<u>Nealotus tripes</u> Johnson	x	x	
<u>Neoepinnula orientalis</u> (Gilchrist & von Bonde)	x	x	
<u>Nesiarchus nasutus</u> Johnson	x	x	
<u>Prometichthys prometheus</u> (Cuvier)	x	x	
<u>Ruvettus pretiosus</u> Cocco	x	x	

## Literature:

Collette et al. 1984; Nishikawa, Y. 1987. Studies on the early life history of gempylid fishes. Far Seas Fish. Lab. Bull. 24:1-154; Richards 1989

GERREIDAE	E	L	J
<u>Diapterus olisthostomus</u> (Goode & Bean)			
<u>Diapterus rhombeus</u> (Cuvier)			
<u>Eucinostomus argenteus</u> Baird & Girard			
<u>Eucinostomus gula</u> (Cuvier in C & V)			
<u>Eucinostomus harengula</u>			
<u>Eucinostomus havana</u> (Nichols)			
<u>Eucinostomus jonesii</u> Guenther			
<u>Eucinostomus lefroyi</u> (Goode)			
<u>Eucinostomus melanopterus</u> (Bleeker)			
<u>Eugerres awlæ</u> Schultz			
<u>Eugerres brasilianus</u> (Cuvier in C & V)			
<u>Eugerres plumieri</u> (Cuvier in C & V)			
<u>Gerres cinereus</u> (Walbaum)			

## Literature:

Johnson 1984; FAO List

GIBBERICHTHYIDAE	E	L	J
<u>Gibberichthys pumilus</u> Parr		x	x

## Literature:

Robins & de Sylva 1965; Keene & Tighe 1984

GIGANTACTINIDAE	E	L	J
<u>Gigantactis</u> sp		x	
<u>Gigantactis gracilicauda</u> Regan			
<u>Gigantactis exodon</u> Regan & Trewavas			
<u>Gigantactis sexfilis</u> Regan & Trewavas			
<u>Gigantactis longicirra</u> Waterman			
<u>Rhynchactis leptonema</u> Regan		x	

## Literature:

Bertelsen 1951

## GIGANTURIDAE

Gigantura chuni Brauer  
Rosaura indica (Brauer)

E L J  
 X X  
 X X

## Literature:

Johnson 1984

## GOBIESOCIDAE

Acyrtops beryllinus (Hildebrand & Ginsburg)  
Gobiesox punctatus (Poey)  
Gobiesox strumosus Cope  
Gobiesox nigripinnis (Peters)  
Acyrtus artius Briggs  
Acyrtus rubiginosus (Poey)  
Tomicodon fasciatus (Peters)  
Arcos macrophthalmus (Guenther)  
Gymnoscyphus ascitus Boehlke & Robins

E L J  
 X X X  
 X X X

## Literature:

Briggs 1955; Allen 1984; Boehlke & Robins 1970

## GOBIIDAE

E L J

Awaos flavus (Valenciennes)  
Awaos mexicanus (Guenther)  
Awaos tajasicus (Lichtenstein)  
Barbulifer antennatus Boehlke & Robins  
Barbulifer ceuthoeucus (Jordan & Gilbert)  
Bathygobius curacao Metzelaar  
Bathygobius mystacium Ginsburg  
Bollmannia boqueronensis Evermann & Marsh  
Bollmannia communis Ginsburg  
Bollmannia jeannae Fowler  
Bollmannia litura Ginsburg  
Chriolepis bentonii Ginsburg  
Chriolepis fisheri Herre  
Coryphopterus alloides Boehlke & Robins  
Coryphopterus dicrus Boehlke & Robins  
Coryphopterus eidolon Boehlke & Robins  
Coryphopterus glaucofraenum Gill  
Coryphopterus hyalinus Boehlke & Robins  
Coryphopterus lipernes Boehlke & Robins  
Coryphopterus personatus (Jordan & Thompson)  
Coryphopterus punctipectphorus Springer  
Coryphopterus thrix Boehlke & Robins  
Elacatinus atronasum Boehlke & Robins  
Elacatinus chancei (Beebe & Hollister)  
Elacatinus dilepis Boehlke & Robins  
Elacatinus evelynae (Boehlke & Robins)  
Elacatinus gemmatus (Ginsburg)  
Elacatinus genie (Boehlke & Robins)  
Elacatinus horsti (Metzelaar)

## GOBIIDAE (CON'T)

E L J

<u>Elacatinus illecebrosus</u> (Boehlke & Robins)	
<u>Elacatinus louisae</u> (Boehlke & Robins)	
<u>Elacatinus macrodon</u> (Beebe & Tee-Van)	
<u>Elacatinus multifasciatus</u> (Steindachner)	
<u>Elacatinus oceanops</u> Jordan	
<u>Elacatinus pallens</u> (Ginsburg)	
<u>Elacatinus prochilos</u> (Boehlke & Robins)	
<u>Elacatinus randalli</u> (Boehlke & Robins)	
<u>Elacatinus saucrus</u> (Robins)	
<u>Elacatinus tenox</u> (Boehlke & Robins)	
<u>Elacatinus xanthiprora</u> (Boehlke & Robins)	
<u>Elacatinus zebrellus</u> (Robins)	
<u>Evermannichthys convictor</u> Boehlke & Robins	
<u>Evermannichthys metzelaari</u> Hubbs	
<u>Evermannichthys silas</u> Boehlke & Robins	
<u>Evermannichthys spongicola</u> (Radcliffe)	
<u>Evorthodus lyricus</u> (Girard)	x x x
<u>Ginsburgellus novemlineatus</u> (Fowler)	
<u>Gnatholepis thompsoni</u> Jordan	
<u>Gobiooides broussonnetii</u> Lacepede	
<u>Gobiooides grahamae</u> Palmer	
<u>Gobiooides guichenoti</u> (Sauvage)	
<u>Gobionellus atripinnis</u> Gilbert & Randall	
<u>Gobionellus boleosoma</u> (Jordan & Gilbert)	x x
<u>Gobionellus comma</u> Gilbert & Randall	
<u>Gobionellus claytoni</u> Meek	
<u>Gobionellus rasciatus</u> (Gill)	
<u>Gobionellus oceanicus</u> (Pallas)	
<u>Gobionellus pseudofasciatus</u> Gilbert & Randall	
<u>Gobionellus saepepallens</u> Gilbert & Randall	
<u>Gobionellus shufeldti</u> (Jordan & Eigenmann)	
<u>Gobionellus smaragdus</u> (Valenciennes)	
<u>Gobionellus stigmalphius</u> Mead & Boehlke	
<u>Gobionellus stigmaticus</u> (Poey)	
<u>Gobionellus stigmaturus</u> (Goode & Bean)	
<u>Gobionellus thoropsis</u> Pezold & Gilbert	
<u>Gobionellus phenacus</u> Pezold & Lasala in Pezold & Gilbert	
<u>Gobiosoma boscii</u> (Lacepede)	x x x
<u>Gobiosoma ginsburgi</u> Hildebrand & Schroeder	x x
<u>Gobiosoma grosvenori</u> (Robins)	
<u>Gobiosoma hemigymnum</u> (Eigenmann & Eigenmann)	
<u>Gobiosoma hildebrandi</u> (Ginsburg)	
<u>Gobiosoma longipala</u> Ginsburg	
<u>Gobiosoma nudum</u> (Meek & Hildebrand)	x x
<u>Gobiosoma parri</u> Ginsburg	
<u>Gobiosoma robustum</u> Ginsburg	
<u>Gobiosoma schultzi</u> (Ginsburg)	
<u>Gobiosoma spes</u> (Ginsburg)	
<u>Gobiosoma spilotum</u> (Ginsburg)	
<u>Gobulus myersi</u> Ginsburg	
<u>Ioglossus calliurus</u> Bean	
<u>Ioglossus helena</u> Randall	
<u>Lophogobius cyprinoides</u> (Pallas)	
<u>Lythrypnus crocodilus</u> (Beebe & Tee-Van)	
<u>Lythrypnus elasson</u> Boehlke & Robins	
<u>Lythrypnus heterochroma</u> Ginsburg	

## GOBIIDAE . (CON'T)

E L J

- Lythrypnus mowbrayi (Bean)  
Lythrypnus nesiotes Boehlke & Robins  
Lythrypnus okapia Robins & Boehlke  
Lythrypnus phorellus Boehlke & Robins  
Lythrypnus spilus Boehlke & Robins  
Microgobius carri Fowler  
Microgobius gulosus (Girard)  
Microgobius meeki Evermann & Marsh  
Microgobius signatus Poey  
Microgobius thalassinus (Jordan & Gilbert) x x  
Nes longnus (Nichols)  
Palatogobius paradoxus Gilbert  
Pariah scotius Boehlke  
Parrella macropteryx Ginsburg  
Psilotris alepis Ginsburg  
Psilotris batrachodes Boehlke  
Psilotris celus Boehlke  
Pycnomma roosevelti Ginsburg  
Priolepis hipoliti (Metzelaar)  
Risor ruber (Rosen)  
Sicydium altum Meek  
Sicydium montanum Hubbs  
Sicydium multipunctatum Regan  
Sicydium plumieri (Bloch)  
Sicydium punctatum Perugia  
Sicydium vincente Jordan & Evermann  
Varicus bucca Robins & Boehlke  
Vomerogobius flavus Gilbert

Literature: Ruple 1984; Foster, N. R. & L. A. Fuiman. 1987. Notes on the behavior and early life history of captive lyre gobies, Evorthodus lyricus. Bull. Mar. Sci. 41(1):27-35; Fritzsche 1978 vol 5; Gilbert, C. R. & J. E. Randall. 1979. Northeast Gulf Sci. 3(1):24-47; Pezold, F. & C. R. Gilbert. 1987. Copeia 1987(1):169-175; New genus & species Robins(ms); D. W. Greenfield. 1989. Priolepis dawsoni n. sp. (Pisces: Gobiidae), a third Atlantic species of Priolepis. Copeia 1989 (2): 397-401; Pezold, F. & J. M. Grady. 1989. A morphological and allozymic analysis of species in the Gobionellus oceanicus complex (Pisces: Gobiidae). Bull. Mar. Sci. 45(3): 648-663.

## GRAMMATIDAE

E L J

- Gramma linki  
Gramma loreto Poey  
Gramma melacara Boehlke & Randall  
Lipogramma evides Robins & Colin  
Lipogramma klawi Randall  
Lipogramma regium Robins & Colin  
Lipogramma trilineatum Randall  
Lipogramma anabantooides Boehlke  
Lipogramma flavescens Gilmore & Jones  
Lipogramma roseum Gilbert

Literature: Johnson 1984; Robins & Ray 1986; Gilmore & Jones 1988. Bull. Mar. Sci. 42:435-445.

## GRAMMICOLEPIDIDAE

Grammicolepis brachiusculus Poey  
Xenolepidichthys dalgleishi Gilchrist

E L J

#### Literature:

Tighe & Keene 1984; Karrer & Heemstra 1986 Pages 440-441 in Smith & Heemstra Smith's Sea Fishes [Daramattus(=Xenolepidichthys) americanus syn of G. brachiusculus]; FAO List

## GRAMMATISTIDAE

	E	L	J
<u>Pseudogramma gregoryi</u> (Breder)	x	x	
<u>Rypticus bistrispinus</u> (Mitchill)	x	x	
<u>Rypticus maculatus</u> Holbrook			
<u>Rypticus saponaceus</u> (Schneider)			
<u>Rypticus subbifrenatus</u> (Gill)			
<u>Rypticus bornoi</u> Beebe & TeeVan			
<u>Rypticus brachyrhinus</u> Courtenay			
<u>Rypticus macrostigmus</u> Courtenay			
<u>Rypticus randalli</u> Courtenay			

#### Literature:

Johnson 1984; Courtenay, W. R. Jr. 1967. Proc. Phila. Acad. Sci. 119:241-293

## HAEMULIDAE

	E L J
<u>Anisotremus surinamensis</u> (Bloch)	x
<u>Anisotremus virginicus</u> (Linnaeus)	x
<u>Conodon nobilis</u> (Linnaeus)	
<u>Genyatremus luteus</u> (Bloch)	
<u>Haemulon album</u> Cuvier	
<u>Haemulon aurolineatum</u> Cuvier	x
<u>Haemulon bonariense</u> Cuvier	x
<u>Haemulon boschmae</u> (Metzelaar)	x
<u>Haemulon carbonarium</u> Poey	x
<u>Haemulon chrysargyreum</u> Guenther	x
<u>Haemulon flovoineatum</u> (Desmarest)	x x
<u>Haemulon macrostomum</u> Guenther	x
<u>Haemulon melanurum</u> (Linnaeus)	x
<u>Haemulon parrai</u> (Desmarest)	x
<u>Haemulon plumieri</u> (Lacepede)	x x
<u>Haemulon sciurus</u> (Shaw)	x
<u>Haemulon steindachneri</u> (Jordan & Gilbert)	x
<u>Haemulon striatum</u> (Linnaeus)	
<u>Orthopristis chrysoptera</u> (Linnaeus)	x
<u>Orthopristis poeyi</u> (Schudder)	x x x
<u>Orthopristis ruber</u> (Cuvier)	
<u>Pomadasys corvinaeformis</u> (Steindachner)	
<u>Pomadasys crocro</u> (Cuvier)	

### Literature:

Johnson 1978; 1984; Saksena & Richards 1975; Lindeman 1987.  
Bull. Mar. Sci. 39(3):673-716.

## HALOSAURIDAE

E L J

- Aldrovandia oleosa Sulak  
Halosaurus guentheri Goode & Bean

Literature: see Smith 1989 and refer to Notacanthidae

## HARPADONTIDAE

E L J

- Saurida normani Longley  
Saurida brasiliensis Norman  
Saurida suspicio Breder  
Saurida caribbaea Breder

x x  
x x

Literature:

Okiyama 1984; Anderson, Gehringer & Berry 1966; Miller et al.  
 1979; Rudometkina 1980

## HETERENCHELYIDAE

E L J

- Pythonichthys sanguineus Poey

Literature: Smith 1989

## HIMANTOLOPHIDAE

E L J  
x x  
x

- Himantolophus groenlandicus Reinhardt  
Himantolophus albinares

Literature:

Bertelsen 1984

## HOLOCENTRIDAE

E L J  
x?x

- Holocentrus adscensionis (Osbeck)  
Holocentrus rufus (Walbaum)  
Holocentrus marianus (Cuvier)  
Holocentrus vexillarius (Poey)  
Holocentrus coruscus (Poey)  
Holocentrus bullisi Woods  
Holocentrus poco (Woods)  
Myripristis jacobus Cuvier  
Ostichthys trachypoma (Guenther)  
Corniger spinosus Agassiz  
Plectrypops retrospinis (Guichenot)

Literature:

Keene & Tighe 1984;

## IDIACANTHIDAE

Idiacanthus fasciola PetersE L J  
X X

Literature: Kawaguchi & Moser 1984; Beebe 1934; Pertseva-Ostroumova & Rass 1973

## INERMIIIDAE

Emmelichthys atlanticus Schultz  
Inermia vittata Poey

E L J

Literature: Larvae unknown

## IPNOPIDAE

Ipnops murrayi Guenther  
Bathymicrops regis Hjort & Koefoed  
Bathytyphlops marionae Mead  
Bathypterois viridensis (Roule)  
Bathypterois bigelowi Mead  
Bathypterois longipes Guenther  
Bathypterois phenax Parr  
Bathypterois quadrifilis Guenther  
Bathypterois grallator (Goode & Bean)
E L J  
X  
X  
X X  
X?  
X

## Literature:

Okiyama 1974b, 1981, 1984; Parin & Belyanina 1972; Sanzo 1938b;  
Fahay 1983; Sulak 1977

## ISTIOPHORIDAE

Istiophorus platypterus (Shaw & Nodder)  
Tetrapturus albidus Poey  
Tetrapturus pfluegeri Robins & de Sylva  
Makaira nigricans Lacepede
E L J  
X X X  
X  
X X  
X X

Literature: Collette et al. 1984; Richards 1974; Richards 1989

## KYPHOSIDAE

Kyphosus incisor (Cuvier)  
Kyphosus sectatrix (Linnaeus)
E L J  
X X  
X X

Literature: Johnson 1984

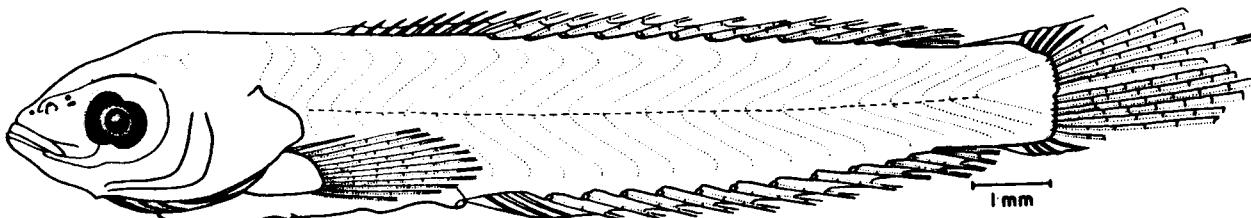
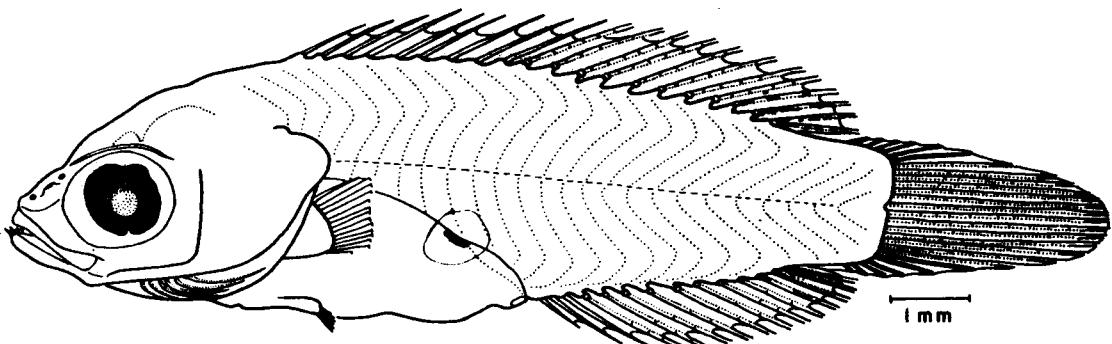
## LABRIDAE

E L J

<u>Bodianus pulchellus</u> (Poey)	
<u>Bodianus rufus</u> (Linnaeus)	
<u>Clepticus parri</u> (Bloch & Schneider)	
<u>Decodon pueillaris</u> (Poey)	
<u>Doratonotus megalepis</u> (Guenther)	
<u>Halichoeres bathyphilus</u> (Beebe & Tee-Van)	
<u>Halichoeres bivittata</u> (Bloch)	
<u>Halichoeres caudalis</u> (Poey)	
<u>Halichoeres cyanocephalus</u> (Bloch)	
<u>Halichoeres garnoti</u> (Valenciennes)	
<u>Halichoeres maculipinna</u> (Mueller & Troschel)	
<u>Halichoeres pictus</u> (Poey)	
<u>Halichoeres poeyi</u> (Steindachner)	
<u>Halichoeres radiatus</u> (Linnaeus)	
<u>Xyrichtys martinicensis</u> (Valenciennes)	x?x?
<u>Xyrichtys novacula</u> (Linnaeus)	
<u>Xyrichtys splendens</u> (Castelnau)	
<u>Lachnolaimus maximus</u> (Walbaum)	xx
<u>Thalassoma bifasciatum</u> (Bloch)	xx

## Literature:

Richards &amp; Leis 1984

Fig. 3. Xyrichtys sp., 13.4 mm SL, Bahamas.Fig. 4. Halichoeres sp., 11.3 mm SL, Bahamas.

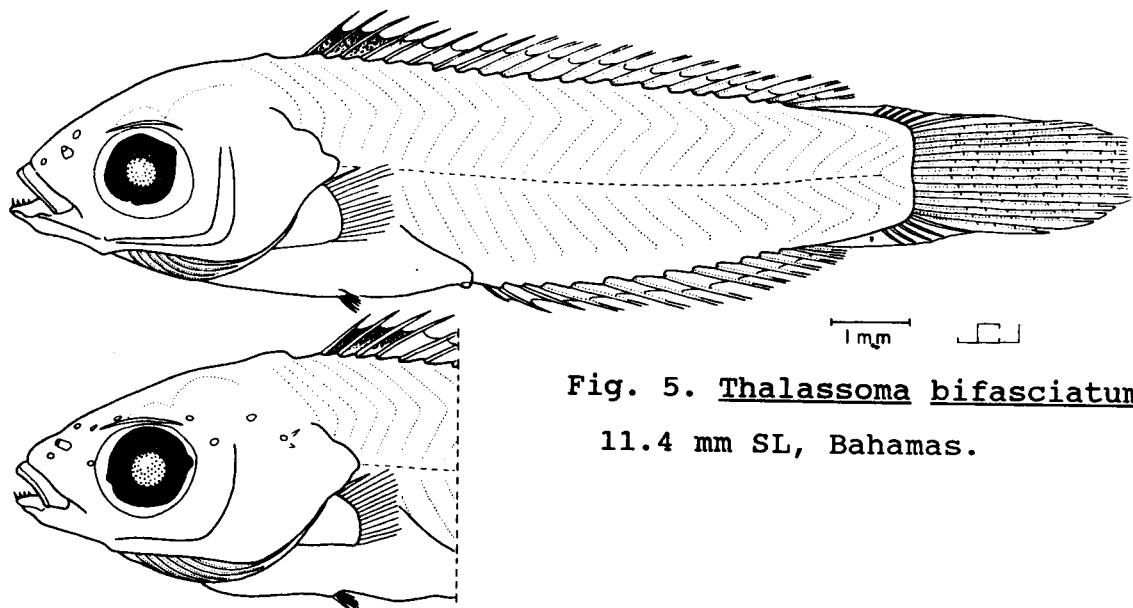


Fig. 5. Thalassoma bifasciatum,  
11.4 mm SL, Bahamas.

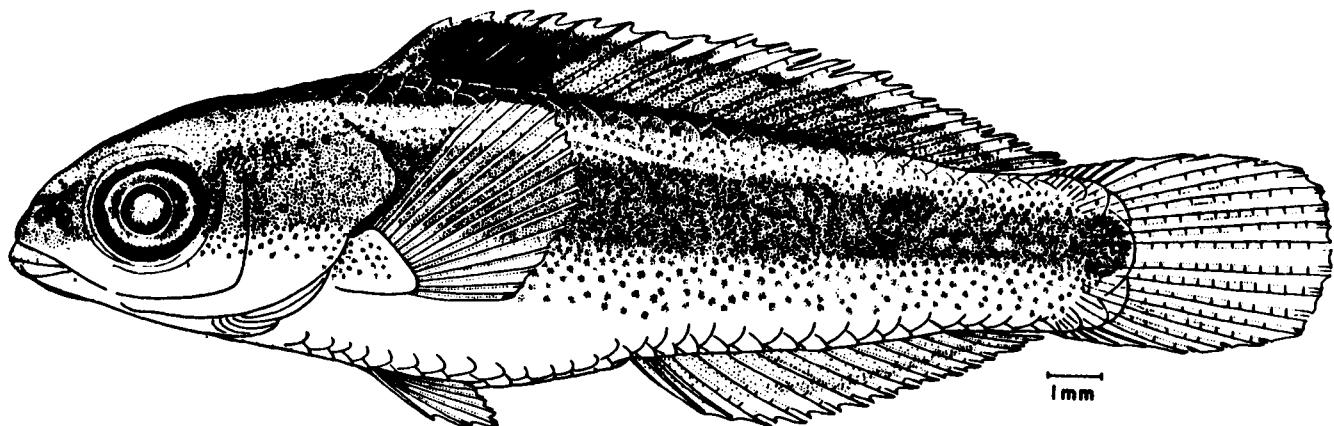


Fig. 6. Thalassoma bifasciatum, 19.0 mm SL, Virginia Key, Florida.

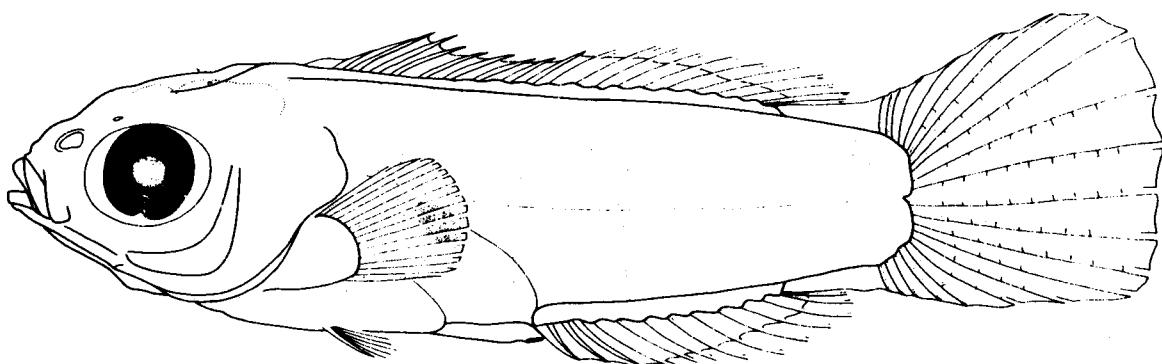


Fig. 7. Doratonotus clepticus?, 7.5 mm SL, OREGON II St. 47588.

## LABRISOMIDAE

E L J

Haptoclinus apectolophus Boehlke & Robins  
Labrisomus albigenys Beebe & TeeVan  
Labrisomus bucciferus (Poey)  
Labrisomus filamentosus Springer  
Labrisomus gobio (Valenciennes)  
Labrisomus guppyi (Norman)  
Labrisomus haitiensis Beebe & TeeVan  
Labrisomus kalisherae (Jordan)  
Labrisomus nigricinctus Howell Rivero  
Labrisomus nuchipinnis (Quoy & Gaimard)  
Malacoctenus aurolineatus Smith  
Malacoctenus boehlkei Springer  
Malacoctenus delalandi (Valenciennes)  
Malacoctenus erdmanni Smith  
Malacoctenus gilli (Steindachner)  
Malacoctenus macropus (Poey)  
Malacoctenus triangulatus Springer  
Malacoctenus versicolor (Poey)  
Nemaclinus atelestos Boehlke & Springer  
Paraclinus barbatus Springer  
Paraclinus cingulatus (Evermann & Marsh)  
Paraclinus fasciatus (Steindachner)  
Paraclinus grandicomis (Rosen)  
Paraclinus infrons Boehlke  
Paraclinus marmoratus (Steindachner)  
Paraclinus naeorhegmis Boehlke  
Paraclinus nigripinnis (Steindachner)  
Starksia atlantica Longley  
Starksia elongata Gilbert  
Starksia fasciata (Longley)  
Starksia guttata (Fowler)  
Starksia hassi Klausewitz  
Starksia lepicoelia Boehlke & Springer  
Starksia nanodes Boehlke & Springer  
Starksia ocellata (Steindachner)  
Starksia sluyteri (Metzelaar)  
Starksia starcki Gilbert  
Starksia ylineata Gilbert  
Stathmonotus gymnodermis Springer  
Stathmonotus hemphilli Bean  
Stathmonotus stahli (Evermann & Marsh)

## Literature:

Matarese et al. 1984; FAO List;

## LAMPRIDAE

Lampris guttata (Bruennich)

E L J

X X

## Literature:

Olney 1984

"LEPTOCEPHALI"	E	L	J
Unidentified Saccopharyngoid Leptocephalus	x		
Unidentified Type I species A	x		
Unidentified Type I species B	x		
Unidentified Type II	x		
<u>Leptocephalus thorianus</u> Schmidt	x		
<u>Ascomana eximia</u> Castle	x		

Literature: Smith 1989

LINOPHRYNIDAE	E	L	J
<u>Edriolychnus schmidti</u> Regan	x		
<u>Linophryne coronata</u> Parr			
<u>Linophryne arborifera</u> Regan			x
<u>Linophryne masculina</u> (Parr)			

Literature:  
Bertelsen 1951

LOBOTIDAE	E	L	J
<u>Lobotes surinamensis</u> (Bloch)	x	x	x

Literature: Johnson 1984

LOPHIIDAE	E	L	J
<u>Lophiodes monodi</u> LeDanois			
<u>Lophiodes reticulatus</u> Caruso & Suttkus			
<u>Lophiodes beroe</u> Caruso			
<u>Lophius americanus</u> Valenciennes			x x x
<u>Lophius gastrophysus</u> Ribeiro			
<u>Sladenia shaefersi</u> Caruso & Bullis			

Literature:  
Pietsch 1984; Caruso, J. H. 1981. The systematics and distribution of the lophiid anglerfishes: I. A revision of Lophiodes with the description of two new species. Copeia 1981(3):522-549.

LOPHOTIDAE	E	L	J
<u>Lophotus lacepedei</u> Giorna			
<u>Eumecichthys fiski</u> (Guenther)	x		

Literature:  
Olney 1984

## LUTJANIDAE

E L J

<u>Etelis oculatus</u> (Valenciennes)	
<u>Pristipomoides aquilonaris</u> (Goode & Bean)	
<u>Pristipomoides freemani</u> Anderson	
<u>Pristipomoides macrophthalmus</u> (Mueller & Troschel)	
<u>Apsilus dentatus</u> Guichenot	
<u>Rhomboplites aurorubens</u> (Cuvier)	x x
<u>Ocyurus chrysurus</u> (Bloch)	
<u>Lutjanus analis</u> (Cuvier)	
<u>Lutjanus apodus</u> (Walbaum)	
<u>Lutjanus buccanella</u> (Cuvier)	
<u>Lutjanus campechanus</u> (Poey)	x x x
<u>Lutjanus cyanopterus</u> (Cuvier)	
<u>Lutjanus griseus</u> (Linnaeus)	x x x
<u>Lutjanus jocu</u> (Schneider)	
<u>Lutjanus mahogoni</u> (Cuvier)	
<u>Lutjanus purpureus</u> Poey	
<u>Lutjanus synagris</u> (Linnaeus)	x x
<u>Lutjanus vivanus</u> (Cuvier)	

Literature: Anderson, W. D. Jr. 1987. Systematics of the fishes of the Family Lutjanidae (Perciformes:Percoidei), the snappers. Pages 1-31 in Tropical snappers and groupers: biology and fisheries management. Polovina & Ralston (eds.). Westview Press, Boulder, CO. 659 pp. Allen, G. R. 1987. Synopsis of the circumtropical fish genus Lutjanus (Lutjanidae). Pages 33-87 in Tropical snappers and groupers: biology and fisheries management. Leis, J. M. 1987. Review of the early life history of tropical groupers (Serranidae) and snappers (Lutjanidae). Pages 189-237 in Tropical snappers and groupers: biology and fisheries management.

## LUVARIDAE

E L J

<u>Luvarus imperialis</u> Rafinesque	x x
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Literature: Leis & Richards 1984; Tyler, J. C., G. D. Johnson, I. Nakamura, & B. B. Collette. 1989. Morphology of Luvarus imperialis (Luvaridae), with a phylogenetic analysis of the Acanthuroidei (Pisces). Smithson. Contrib. Zool. (485):1-78.

## MACROURIDAE

E L J

<u>Squalogadus</u> <u>modificatus</u>	Gilbert & Hubbs	
<u>Gadomus</u> <u>arcuatus</u>	(Goode & Bean)	x?
<u>Gadomus</u> <u>longifilis</u>	(Goode & Bean)	
<u>Gadomus</u> <u>dispar</u>	(Vaillant)	
<u>Bathygadus</u> <u>favosus</u>	Goode & Bean	
<u>Bathygadus</u> <u>melanobranchus</u>	Vaillant	
<u>Bathygadus</u> <u>macrops</u>	Goode & Bean	
<u>Coelorhynchus</u> <u>occa</u>	(Goode & Bean)	x x
<u>Coelorhynchus</u> <u>ventrilux</u>	Marshall & Iwamoto	
<u>Coelorhynchus</u> <u>caribbaeus</u>	(Goode & Bean)	
<u>Coelorhynchus</u> <u>coelorhynchus</u> <u>carminatus</u>	(Goode)	
<u>Coryphaenoides</u> <u>alateralis</u>	Marshall & Iwamoto	x?
<u>Coryphaenoides</u> <u>mexicanus</u>	(Parr)	
<u>Coryphaenoides</u> <u>macrocephalus</u>	(Maul)	
<u>Coryphaenoides</u> <u>colon</u>	Marshall & Iwamoto	
<u>Nematonurus</u> <u>armatus</u>	(Hector)	
<u>Chalinura</u> <u>mediterranea</u>	Giglioli	
<u>Hymenocephalus</u> <u>gracilis</u>	Gilbert & Hubbs	
<u>Hymenocephalus</u> <u>italicus</u>	Giglioli	
<u>Hymenocephalus</u> <u>aterrimus</u>	Gilbert	
<u>Hymenocephalus</u> <u>billsam</u>	Marshall & Iwamoto	
<u>Cetonusurus</u> <u>globiceps</u>	(Vaillant)	
<u>Trachonurus</u> <u>villosus</u>	(Guenther)	
<u>Sphagmacrurus</u> <u>grenadæ</u>	(Parr)	
<u>Nezumia</u> <u>longebarbatus</u>	(Roule & Angel)	
<u>Nezumia</u> <u>cyrano</u>	Marshall & Iwamoto	
<u>Nezumia</u> <u>bairdii</u>	(Goode & Bean)	
<u>Nezumia</u> <u>suilla</u>	Marshall & Iwamoto	
<u>Nezumia</u> <u>aqualis</u>	(Guenther)	x?x
<u>Nezumia</u> <u>sclerorhynchus</u>	(Valenciennes)	
<u>Malacocephalus</u> <u>laevis</u>	(Lowe)	x x
<u>Ventrifossa</u> <u>occidentalis</u>	(Goode & Bean)	
<u>Ventrifossa</u> <u>atlantica</u>	Parr	
<u>Ventrifossa</u> <u>macropogon</u>	Marshall	
<u>Ventrifossa</u> <u>mucocephalus</u>	Marshall	

## Literature:

Marshall and Marshall & Iwamoto 1973 FWNA (6); Fahay & Markle 1984; Merrett, N. R. 1989. The elusive macrourid alevin and its seeming lack of potential in contributing to intrafamilial systematics. Pages 175-185 in Cohen, D. M. (ed.). Papers on the systematics of gadiform fishes. Nat. Hist. Mus. Los Angeles Cty. Sci. Ser. (32): 262 pp.

## MALACANTHIDAE

E L J

<u>Caulolatilus</u> <u>chrysopsq</u>	Valenciennes	
<u>Caulolatilus</u> <u>cyanops</u>	Poey	
<u>Caulolatilus</u> <u>intermedius</u>	Howell	
<u>Caulolatilus</u> <u>microps</u>	Goode & Bean	
<u>Caulolatilus</u> <u>guppyi</u>	Beebe & TeeVan	
<u>Caulolatilus</u> <u>williamsi</u>	Dooley & Berry	
<u>Lopholatilus</u> <u>chamaeleonticeps</u>	Goode & Bean	
<u>Malacanthus</u> <u>plumieri</u>	(Bloch)	

Literature: Johnson 1984; FAO List

## MALACOSTEIDAE

Photostomias  
Ultimostomias  
Aristostomias  
Malacosteus

E L J  
 x x  
 x x

Literature: Beebe & Crane 1939; Kawaguchi & Moser 1984; only genera listed because larvae are rare and difficult to identify to species because specific characters are based on barbel morphology or barbel absence.

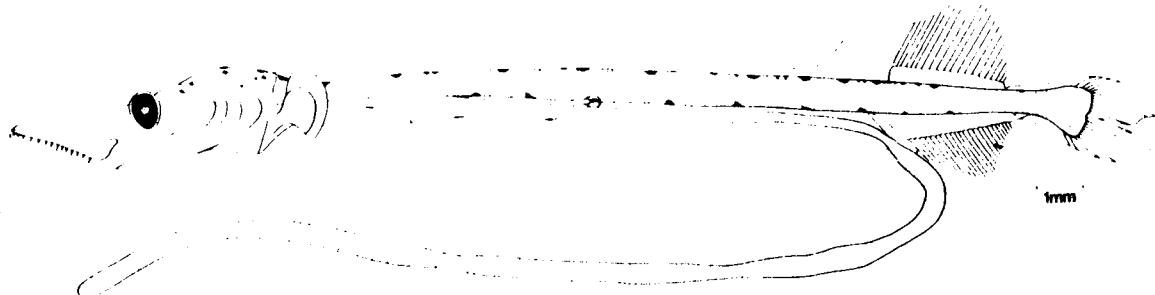


Fig. 8. Malacosteidae, 22.8 mm SL, OREGON II St. 45395.

## MEGALOMYCTERIDAE

E L J

Megalomycter teevani Myers & Freihofner  
Ataxolepis apus Myers & Freihofner  
Cetomimoides parri Koefoed

Literature: Larvae unknown; Myers & Freihofner 1966

## MELAMPHAIDAE

E L J  
 x x

Scopelogadus mizolepis (Guenther)  
Scopelogadus beanii (Guenther)  
Poromitra megalops (Luetken)  
Poromitra capito Goode & Bean  
Poromitra crassiceps (Guenther)  
Scopeloberyx robustus (Guenther)  
Scopeloberyx opisthopterus (Parr)  
Melamphaes microps (Guenther)  
Melamphaes polylepis Ebeling  
Melamphaes suborbitalis (Gill)  
Melamphaes leprus Ebeling  
Melamphaes longivelis Parr  
Melamphaes typhlops (Lowe)  
Melamphaes pumilus Ebeling

x x  
 x x

x x

x x

x x

x x

x x

x x

Literature:

Ebeling & Weed 1976; Keene & Tighe 1984

## MELANOCETIDAE

Melanocetus murrayi Guenther  
Melanocetus johnsoni Guenther

E	L	J
X	X	
X	X	

#### Literature:

Bertelsen 1984.

## MELANONIIDAE

### **Melanonus zugmayeri Norman**

E L J

Literature: None

NOSTOMIIDAE  
Melanostomias  
Chirostomias  
Trigonolampa  
Pachystomias  
Eustomias  
Flagellostomias  
Leptostomias  
Thysanactis  
Grammatostomias  
Bathophilus  
Echiostoma  
Photonectes  
Bathysphaera

E L J  
X X

Literature: Kawaguchi & Moser 1984; Beebe & Crane 1939; Regan 1916; de  
Sylva & Scotton 1972; Sanzo 1915a; Pertseva-Ostroumova & Rass 1973.  
Only genera listed because larvae are rare and species identification  
is based on barbel morphology.

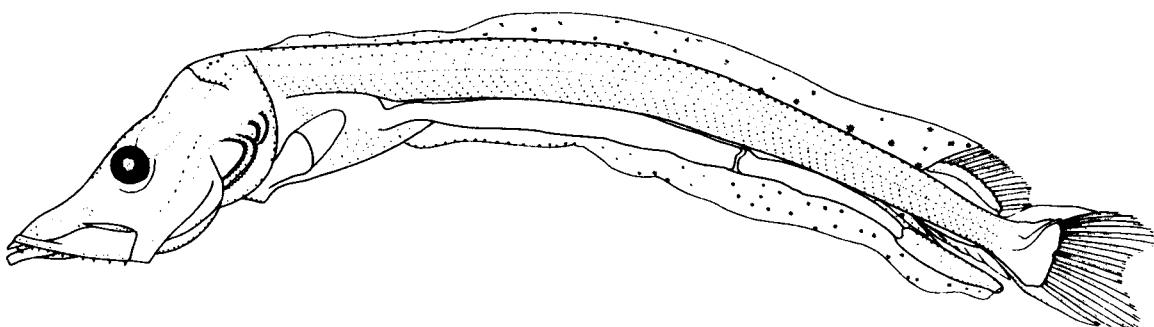


Fig. 9. Eustomias? sp., 24.9 mm SL, OREGON II St. 45418.

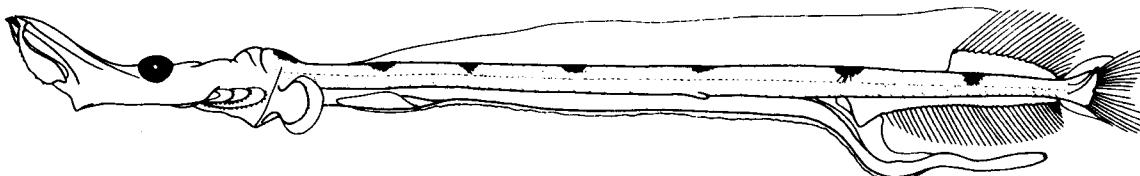


Fig. 10. Leptostomias? sp., 12.6 mm SL, OREGON II St. 45476.

## MERLUCIIDAE

E L J

- Merluccius albidus (Mitchill)  
Merluccius bilinearis (Mitchill)

## Literature:

Fahay & Markle 1984; Ginsburg, 1954. Fish.Bull. 56:187-208;  
Karnella 1973. Fish. Bull. 71:83-91.

## MICRODESMIDAE

E L J

- Cerdale floridana Longley  
Microdesmus lanceolatus Dawson  
Microdesmus longipinnis (Weymouth)

x x

Literature: Ruple 1984

## MIRAPINNIDAE

E L J

- Mirapinna esau Bertelsen & Marshall  
Eutaeniophorus festivus (Bertelsen & Marshall)

x

x x

## Literature:

Bertelsen & Marshall 1984

## MOLIDAE

E L J

- Masturus lanceolatus (Lienard)  
Mola mola (Linnaeus)  
Ranzania laevis (Pennant)

x x x

x x

x x x

Literature: Leis 1984

Sokolovskaya, T.S. & A. S. Sokolovskiy 197?. Voprosy Iktiol trans.  
p.675-678

## MONACANTHIDAE

E L J

- Aluterus heudeloti Hollard  
Aluterus monoceros (Linnaeus)  
Aluterus schoepfi (Walbaum)  
Aluterus scriptus (Osbeck)  
Cantherines macrocerus (Hollard)  
Cantherines pullus (Ranzani)  
Monacanthus ciliatus (Mitchill)  
Monacanthus hispidus (Linnaeus)  
Monacanthus setifer Bennett  
Monacanthus tuckeri Bean

x

x

x

x

x x

x

x

x

x

Literature: Aboussouan & Leis 1984; Berry & Vogele 1961

## MONOGNATHIDAE

E L J

- Monognathus boehlkei Bertelsen & Nielsen  
Monognathus species

x

## Literature:

Smith 1989; Smith 1989

## MORIDAE

E L J

- Antimora rostrata Guenther  
Laemonema melanura Goode & Bean  
Laemonema barbatula Goode & Bean  
Laemonema sp.  
Physiculus fulvus Bean  
Physiculus kaupi Poey  
Physiculus karrerae Paulin  
Gadella imberbis (Vaillant)

## Literature:

Fahay & Markle 1984; Paulin, C. D. 1989. Moridae: Overview. Pages 243-250 in Cohen, D. M. Papers on the systematics of gadiform fishes. LACM Sci. Ser. (32). Paulin, C. D. 1989. Review of the morid genera Gadella, Physiculus, and Salilotia (Teleostei: Gadiformes) with descriptions of seven new species. N. Z. J. Zool. 16(1):93-133. Gadella maraldi not in western Atlantic, records based on Brosmeicus Cohen (pers. comm.). Lotella maxillaris Bean is a pelagic juvenile of L. barbutula according to D. Markle (pers. comm.). Laemonema sp. is a very abundant species off the southeast U. S. coast and its taxonomy is uncertain (cf. L. laureyesi Poll) according to R. Melendez, a student of D. Markle (pers. comm.)

## MORINGUIDAE

E L J  
X  
X

- Neoconger mucronatus Girard  
Moringua edwardsi (Jordan & Bollman)

## Literature: Smith 1989

## MORONIDAE

E L J  
X X

- Polyprion americanus (Schneider)

Literature: Johnson 1984. Polyprion is here for convenience. Morone saxatilis (Walbaum) though introduced is not included.

## MUGILIDAE

E L J  
X X  
X X X  
X X X

- Agonostomus monticola (Bancroft)  
Joturus pichardi Poey  
Mugil cephalus Linnaeus  
Mugil curema Valenciennes  
Mugil gaimardianus Desmarest  
Mugil liza Valenciennes  
Mugil trichodon Poey  
Mugil curvidens Valenciennes  
Mugil hospes Jordan & Culver  
Mugil incilis Hancock

Literature: de Sylva 1984; FAO list.

## MULLIDAE

E L J

- Mulloidichthys martinicus (Cuvier)  
Mullus auratus Jordan & Gilbert  
Pseudupeneus maculatus (Bloch)  
Upeneus parvus (Poey)

Literature: Johnson 1984; FAO List

FAMILY MURAENESOCIDAE  
Cynoponticus savanna (Bancroft)

E L J

Literature: Smith 1989

## MURAENIDAE

E L J

- |  |   |
|--|---|
| <u>Anarchias similis</u> (Lea)                 | x |
| <u>Channomuraena vittata</u> (Richardson)      | x |
| <u>Uropterygius macularius</u> (Lesueur)       | x |
| <u>Echidna catenata</u> (Bloch)                |   |
| <u>Enchelycore anatina</u> (Lowe)              |   |
| <u>Enchelycore carychroa</u> Boehlke & Boehlke |   |
| <u>Enchelycore nigricans</u> (Bonnaterre)      |   |
| <u>Gymnothorax hubbsi</u> Boehlke & Boehlke    |   |
| <u>Gymnothorax maderensis</u> (Johnson)        |   |
| <u>Gymnothorax miliaris</u> (Kaup)             | x |
| <u>Gymnothorax conspersus</u> Poey             | x |
| <u>Gymnothorax kolpos</u> Boehlke & Boehlke    |   |
| <u>Gymnothorax saxicola</u> Jordan & Davis     |   |
| <u>Gymnothorax nigromarginatus</u> (Girard)    |   |
| <u>Gymnothorax ocellatus</u> Agassiz           |   |
| <u>Gymnothorax funebris</u> Ranzani            | x |
| <u>Gymnothorax moringa</u> (Cuvier)            |   |
| <u>Gymnothorax polygonius</u> Poey             |   |
| <u>Gymnothorax vicinus</u> (Castelnau)         | x |
| <u>Gymnothorax</u> sp. A                       | x |
| <u>Gymnothorax</u> sp. B                       | x |
| <u>Gymnothorax</u> sp. C                       | x |
| <u>Gymnothorax</u> sp.                         | x |
| <u>Gymnothorax</u> sp.                         | x |
| <u>Monopenchelys acuta</u> (Parr)              |   |
| <u>Muraena pavonina</u> Richardson             |   |
| <u>Muraena retifera</u> Goode & Bean           |   |
| <u>Muraena robusta</u> Osorio                  |   |

Literature: Smith 1989

## MYCTOPHIDAE

	E	L	J
<u>Electrona rissoii</u> (Cocco)	x	x	
<u>Hygophum benoitii</u> (Cocco)	x	x	
<u>Hygophum reinhardtii</u> (Luetken)	x	x	
<u>Hygophum hygomii</u> (Luetken)	x	x	
<u>Hygophum macrochir</u> (Guenther)	x	x	
<u>Hygophum taanungi</u> Bekker	x	x	
<u>Benthosema suborbitale</u> (Gilbert)	x	x	
<u>Diogenichthys atlanticus</u> (Taaning)	x	x	
<u>Myctophum affine</u> (Luetken)	x	x	
<u>Myctophum nitidulum</u> Garman	x	x	
<u>Myctophum asperum</u> Richardson	x	x	
<u>Myctophum obtusirostre</u> Taaning	x	x	
<u>Myctophum selenops</u> Taaning	x	x	
<u>Symbolophorus rufinus</u> (Taaning)	x	x	
<u>Loweina rara</u> (Luetken)	x	x	
<u>Loweina interrupta</u> (Taaning)			
<u>Gonichthys coco</u> (Cocco)	x	x	
<u>Centrobranchus nigroocellatus</u> (Guenther)	x	x	
<u>Notolychnus valdiviae</u> (Brauer)	x	x	
<u>Lobianchia dofleini</u> (Zugmayer)	x	x	
<u>Lobianchia gemellarii</u> (Cocco)	x	x	
<u>Diaphus dumerilii</u> (Bleeker)	x	x	
<u>Diaphus garmani</u> Gilbert			
<u>Diaphus problematicus</u> Parr			
<u>Diaphus adenomus</u> Gilbert			
<u>Diaphus splendidus</u> (Brauer)			
<u>Diaphus taanungi</u> Norman			
<u>Diaphus bertelseni</u> Nafpaktitis			
<u>Diaphus luetkeni</u> (Brauer)			
<u>Diaphus termophilus</u> Taaning			
<u>Diaphus minax</u> Nafpaktitis			
<u>Diaphus lucidus</u> (Goode & Bean)			
<u>Diaphus fragilis</u> Taaning			
<u>Diaphus perspicillatus</u> (Ogilby)			
<u>Diaphus effulgens</u> (Goode & Bean)			
<u>Diaphus roei</u> Nafpaktitis			
<u>Diaphus metopoclampus</u> (Cocco)			
<u>Diaphus rafinesquii</u> (Cocco)	x	x	
<u>Diaphus mollis</u> Taaning			
<u>Diaphus subtilis</u> Nafpaktitis			
<u>Diaphus brachycephalus</u> Taaning			
<u>Lampadena luminosa</u> (Garman)	x		
<u>Lampadena urophaos atlantica</u> Maul	x	x	
<u>Lampadena chavesi</u> Collett			
<u>Lampadena anomala</u> Parr			
<u>Taaningichthys minimus</u> (Taaning)	x		
<u>Taaningichthys bathyphilus</u> (Taaning)			
<u>Taaningichthys paurolychnus</u> Davy			
<u>Lampanyctus cuprarius</u> Taaning			
<u>Lampanyctus lineatus</u> Taaning			
<u>Lampanyctus ater</u> Taaning			
<u>Lampanyctus crocodilus</u> (Risso)	x	x	
<u>Lampanyctus photonotus</u> Parr			
<u>Lampanyctus nobilis</u> Taaning	x		
<u>Lampanyctus vadulus</u> Hulley			

## MYCTOPHIDAE (CON'T)

E L J

<u>Lampanyctus festivus</u> Taaning	
<u>Lampanyctus tenuiformis</u> (Brauer)	x x
<u>Lampanyctus pusillus</u> (Johnson)	
<u>Lampanyctus alatus</u> Goode & Bean	
<u>Lepidophanes guentheri</u> (Goode & Bean)	x x
<u>Lepidophanes gaussi</u> (Brauer)	x
<u>Bolinichthys supralateralis</u> (Parr)	
<u>Bolinichthys distofax</u> Johnson	x
<u>Bolinichthys photothorax</u> (Parr)	
<u>Bolinichthys indicus</u> (Nafpaktitis & Nafpaktitis)	x x
<u>Ceratoscopelus maderensis</u> (Lowe)	x
<u>Ceratoscopelus warmingi</u> (Luetken)	x
<u>Notoscopelus caudispinosus</u> Johnson	x
<u>Notoscopelus resplendens</u> (Richardson)	x x

## Literature:

Taaning 1918; Shiganova 1974, 1975, 1977; Moser & Ahlstrom 1970, 1972, 1974; Pertseva-Ostroumova 1974; Badcock & Merret 1976; Badcock & Araujo 1988 Bull. Mar. Sci. 42:16-43; Dekhnik & Salabariya 1966; Hulley 1981; Miller, Watson, & Leis 1979; Belyanina 1982b; Moser, Ahlstrom, & Paxton 1984. Note: Electrona rissoei borders the southeast edge of our area off Surinam with unconfirmed reports from the Bahamas.

## NEMICHTHYIDAE

E L J

<u>Avocettina infans</u> Guenther	x
<u>Labichthys carinatus</u> Gill & Ryder	x
<u>Nemichthys scolopaceus</u> Richardson	x
<u>Nemichthys curvirostris</u> (Stroemman)	x

## Literature: Smith &amp; Nielsen 1989; Smith 1989

## NEOCERATIIDAE

E L J

<u>Neoceratias spinifer</u> Pappenheim	x
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## Literature:

Bertelsen 1951

## NEOSCOPELIIDAE

E L J

<u>Scopelengys tristis</u> Alcock	x
<u>Neoscopelus macrolepidotus</u> Johnson	x
<u>Neoscopelus microchir</u> Matsubara	

## Literature: Butler &amp; Ahlstrom 1976; Okiyama 1974b, 1984

## NETTASTOMATIDAE

E L J

<u>Hoplunnis megista</u>	Smith & Kanazawa	x
<u>Hoplunnis tenuis</u>	Ginsburg	x
<u>Hoplunnis diomediana</u>	Goode & Bean	x
<u>Hoplunnis similis</u>	Smith	x
<u>Hoplunnis macrura</u>	Ginsburg	x
<u>Hoplunnis</u> sp. C		x
<u>Saurenchelys cognita</u>	Smith	x
<u>Saurenchelys</u> sp. B		x
<u>Saurenchelys</u> sp. C		x
<u>Facciolella</u> sp. B		x
<u>Facciolella</u> sp. C		x
<u>Nettenchelys pygmaea</u>	Smith & Boehlke	x
<u>Nettenchelys exoria</u>	Boehlke & Smith	x?
<u>Nettenchelys inion</u>	Smith & Boehlke	x?
<u>Nettenchelys</u> sp. D		x
<u>Nettastoma melanura</u>	Rafinesque	x
<u>Nettastoma syntresis</u>	Smith & Boehlke	x
<u>Venefica procera</u>	(Goode & Bean)	x

Literature: Smith 1989; Smith 1989

## NOMEIDAE

E L J

<u>Cubiceps pauciradiatus</u>	Guenther	x x
<u>Cubiceps baxteri</u>	McCulloch	x x
<u>Nameus gronovii</u>	(Gmelin)	x x
<u>Psenes cyanophrys</u>	Valenciennes	x x
<u>Psenes pellucidus</u>	Luetken	x x
<u>Psenes maculatus</u>	Luetken	x x
<u>Psenes arafurensis</u>	Guenther	x x

## Literature:

Haedrich 1967; Ahlstrom et al. 1976; Butler 1979; Horn 1984

## NOTACANTHIDAE

E L J

<u>Notacanthus chemnitzi</u>	Bloch	
<u>Tilurus</u> species		x
<u>Tiluropsis</u> species		x
<u>Leptocephalus giganteus</u>	Castle	x

Literature: Smith 1989

	E	L	J
NOTOSUDIDAE			
<u>Scopelosaurus lepidus</u> (Krefft & Maul)		x	
<u>Scopelosaurus argenteus</u> (Maul)		x	
<u>Scopelosaurus smithii</u> Bean		x	
<u>Scopelosaurus mauli</u> Bertelsen, Krefft, & Marshall		x	
<u>Ahliesaurus berryi</u> Bertelsen, Krefft, & Mauli		x	

## Literature:

Bertelsen, Krefft, & Marshall 1976.; Ozawa 1978; Okiyama 1984

	E	L	J
OGCOCEPHALIDAE			
<u>Halieutichthys caribbaeus</u> Garman			
<u>Halieutichthys aculeatus</u> (Mitchill)			
<u>Ogcocephalus nasutus</u> (Valenciennes)			
<u>Ogcocephalus radiatus</u> (Mitchill)			
<u>Ogcocephalus parvus</u> Longley & Hildebrand			
<u>Ogcocephalus corniger</u> Bradbury			
<u>Ogcocephalus rostellum</u> Bradbury			
<u>Ogcocephalus notatus</u> (Valenciennes)			
<u>Ogcocephalus cubifrons</u> (Richardson)			
<u>Ogcocephalus pantostictus</u> Bradbury			
<u>Ogcocephalus declivirostris</u> Bradbury			
<u>Ogcocephalus pumilus</u> Bradbury			
<u>Zalieutes mcgintyi</u> (Fowler)			
<u>Dibranchus atlanticus</u> Peters			

## Literature:

Pietsch 1984. Bradbury, M.G. 1980. Proc. Cal. Acad. Sci. 42(7):229-285.

	E	L	J
OMOSUDIDAE			
<u>Omosudis lowei</u> Guenther		x	

## Literature:

Okiyama 1984; Rofen 1966b; Nielsen, J. G. & Aa. Jespersen. 1986. Morphometric changes in ripening Omosudis lowei (Pisces, Omosudidae). Arch. FischWiss. 37(1/2):59-67.

	E	L	J
ONEIRODIDAE			
<u>Oneirodes anisacanthus</u> (Regan)			
<u>Oneirodes bradburyae</u> Grey			x
<u>Oneirodes melanocauda</u> Bertelsen			
<u>Oneirodes eschrichtii</u> Luetken			
<u>Oneirodes macrosteus</u> Pietsch			
<u>Oneirodes macronema</u> (Regan & Trewavas)			
<u>Chaenophryne draco</u> Beebe		x	
<u>Chaenophryne longiceps</u> Regan		x	
<u>Microphichthys microlophus</u> (Regan)		x	
<u>Microphichthys andracanthus</u> Bertelsen			
<u>Leptacanthichthys gracilispinis</u> (Regan)			
<u>Pentherichthys</u> sp.		x	
<u>Lophodolus</u> sp.		x	
<u>Spiniphryne gladiferae</u> (Beebe)			
<u>Dolopichthys karsteni</u> Pietsch			

## Literature:

Bertelsen 1984, 1951. Leipertz, S. L. and T. W. Pietsch 1987. Copeia (2):406-409

## OPHICHTHIDAE

	E L J
<u>Ahlia egmontis</u> (Jordan)	x
<u>Asarcenchelys longimanus</u> McCosker	x?
<u>Mixomyrophis pusillipinna</u> McCosker	x?
<u>Myrophis anterodorsalis</u> McCosker, Boehlke, & Boehlke	
<u>Myrophis platyrhynchus</u> Breder	x
<u>Myrophis plumbeus</u> (Cope)	x
<u>Myrophis punctatus</u> Luetken	x
<u>Pseudomyrophis frio</u> (Jordan & Davis)	x
<u>Pseudomyrophis fugesae</u> McCosker, Boehlke, & Boehlke	x
<u>Pseudomyrophis nimius</u> Boehlke	x
<u>Pseudomyrophis</u> species	x
<u>Aprognathodon platyventris</u> Boehlke	x
<u>Callechelys bilinearis</u> Kanazawa	x
<u>Callechelys guineensis</u> (Osorio)	x
<u>Callechelys muraena</u> Jordan & Evermann	x
<u>Callechelys springeri</u> (Ginsburg)	x
<u>Callechelyini</u> species	x
<u>Letharchus aliculatus</u> McCosker	x?
<u>Letharchus velifer</u> Goode & Bean	x
<u>Apterichtus ansp</u> (Boehlke)	x
<u>Apterichtus kendalli</u> (Gilbert)	x
<u>Ichthyapus ophioneus</u> (Evermann & Marsh)	x
<u>Stictorhinus potamius</u> Boehlke & McCosker	x
<u>Bascanichthys bascanium</u> (Jordan)	x
<u>Bascanichthys inopinatus</u> McCosker, Boehlke, & Boehlke	x
<u>Bascanichthys paulensis</u> Storey	x
<u>Bascanichthys scuticaris</u> (Goode & Bean)	x
<u>Bascanichthyni</u> species	x
<u>Caralophia loxochila</u> Boehlke	x
<u>Ethadophis akkistikos</u> McCosker & Boehlke	x
<u>Ethadophis</u> species	x
<u>Gordiichthys ergodes</u> McCosker, Boehlke, & Boehlke	x?
<u>Gordiichthys irretitus</u> Jordan & Davis	x
<u>Gordiichthys leibyi</u> McCosker & Boehlke	x
<u>Gordiichthys randalli</u> McCosker & Boehlke	x?
<u>Phaenomonas longissima</u> (Cadenat & Marchal)	x
<u>Aplatophis chauliodus</u> Boehlke	x
<u>Echiophis intertinctus</u> (Richardson)	x
<u>Echiophis punctifer</u> (Kaup)	x
<u>Herpetoichthys regius</u> (Shaw)	?
<u>Hyphalophis devius</u> McCosker & Boehlke	
<u>Kertomichthys blastorhinos</u> (Kanazawa)	
<u>Lethogoleos andersoni</u> McCosker & Boehlke	?
<u>Myrichthys breviceps</u> (Richardson)	x
<u>Myrichthys ocellatus</u> (Lesueur)	x
<u>Ophichthus brasiliensis</u> (Kaup)	x
<u>Ophichthus cruentifer</u> (Goode & Bean)	x
<u>Ophichthus cylindroideus</u> (Ranzani)	x
<u>Ophichthus gomesii</u> (Castelnau)	x
<u>Ophichthus hyposagmatus</u> McCosker & Boehlke	x
<u>Ophichthus melanoporus</u> Kanazawa	x
<u>Ophichthus menezezi</u> McCosker & Boehlke	x
<u>Ophichthus omorgmus</u> McCosker & Boehlke	x
<u>Ophichthus ophis</u> (Linnaeus)	x
<u>Ophichthus puncticeps</u> (Kaup)	x

## OPHICHTHYIDAE (CON'T)

E L J

<u>Ophichthus rex</u> Boehlke & Caruso	x
<u>Ophichthus spinicauda</u> (Norman)	x?
<u>Quassiremus ascensionis</u> (Studer)	x?
Ophichthini species 1	x
Ophichthini species 2	x
Ophichthini species 3	x
Ophichthini species 4	x
Ophichthini species 5	x
Ophichthini species 6	x
Ophichthini species 7	x

Literature: Leiby 1989; McCosker, Boehlke, &amp; Boehlke 1989

## OPHIDIIDAE

E L J

<u>Lepophidium jeannae</u> Fowler	x
<u>Lepophidium staurophor</u> Robins	x
<u>Lepophidium kallion</u> Robins	x
<u>Lepophidium profundorum</u> (Goode & Bean)	
<u>Lepophidium marmoratum</u> (Goode & Bean)	
<u>Lepophidium brevibarbe</u> (Cuvier)	
<u>Lepophidium aporrhox</u> Robins	
<u>Lepophidium pheromystax</u> Robins	
<u>Lepophidium</u> spp (ca. 7 new by Robins)	x
<u>Ophidion beani</u> Jordan & Gilbert(will get new name)	
<u>Ophidion grayi</u> (Fowler)	
<u>Ophidion holbrooki</u> (Putnam)	
<u>Ophidion marginatum</u> (DeKay)	
<u>Ophidion selenops</u> Robins & Boehlke	x
<u>Ophidion welshi</u> (Nichols & Breder)	
<u>Ophidion nocomis</u> Robins & Boehlke	x
<u>Ophidion</u> sp	x
<u>Otophidion omostigmum</u> (Jordan & Gilbert)	x
<u>Otophidion chickcharney</u> Boehlke & Robins	
<u>Otophidion dormitator</u> Boehlke & Robins	
<u>Parophidion schmidti</u> (Woods & Kanazawa)	x

Not Ophidiidae(sensu stricto). Placed here for convenience

<u>Abyssobrotula galatheae</u> Nielsen
<u>Acanthonus armatus</u> Guenther
<u>Apagesoma edentatum</u> Carter
<u>Apagesoma delosommatus</u> (Hureau, Staiger & Nielsen)
<u>Barathrites iris</u> Zugmayer
<u>Barathrodemus manatinus</u> Goode & Bean
<u>Bassogigas gillii</u> Goode & Bean
<u>Bassozetus normalis</u>
<u>Bassozetus taenia</u>
<u>Bathyonus pectoralis</u>
<u>Bathyonus laticeps</u>
<u>Benthocometes robustus</u> (Goode & Bean)
<u>Brotula barbata</u> (Bloch)
<u>Brotulotaenia brevicauda</u> Cohen
<u>Brotulotaenia crassa</u> Parr
<u>Dicrolene intronigra</u> Goode & Bean
<u>Dicrolene kanazawai</u> Grey

## OPHIDIIDAE (CON'T)

E L J

- Helcomycteronus squamosus  
Lamprogrammus niger  
Leucicorus atlanticus Nielsen  
Luciobrotula corethromycter Cohen  
Monomitopus agassizii (Goode & Bean)  
Monomitopus magnus Carter & Cohen  
Monomitopus torvus Garman  
Neobythites gillii Goode & Bean  
Neobythites marginatus Goode & Bean  
Penopus macdonaldi (Goode & Bean)  
Porogadus catena (Goode & Bean)  
Porogadus miles Goode & Bean  
Porogadus silus Carter & Sulak  
Petrotyx sanguineus (Meek & Hildebrand)  
Pycnocraspedum phyllosoma (Parr)  
Spectrunculus grandis Guenther  
Xyelacyba myersi Cohen

## Literature:

Gordon et al. 1984; Cohen & Nielsen 1978; Hureau et al. 1979.  
Bull. Mar. Sci. 29:272-277; Carter 1983. Bull. Mar. Sci. 33:94-101;  
Carter & Cohen 1985. Bull. Mar. Sci. 36:86-95; Carter & Sulak 1984.  
Bull. Mar. Sci. 34:358-379

## OPISTHOGNATHIDAE

E L J

- Gnathopops bermudezi Howell Rivero  
Gnathopops mystacinus Jordan  
Lonchopisthus higmani Mead  
Lonchopisthus lemur (Myers)  
Lonchopisthus lindneri Ginsburg  
Lonchopisthus meadi Menzies & de Figueiredo  
Lonchopisthus micrognathus (Poey)  
Lonchopisthus vanderbilti Mowbray  
Opistognathus aurifrons (Jordan & Thompson) x x  
Opistognathus cuvieri Valenciennes  
Opistognathus fasciatum Longley  
Opistognathus gilberti Boehlke  
Opistognathus lonchurus Jordan & Gilbert  
Opistognathus macrognathus Poey  
Opistognathus macrops Poey  
Opistognathus maxillosus Poey  
Opistognathus megalepis Smith-Vaniz  
Opistognathus megastoma Guenther  
Opistognathus melachasme Smith-Vaniz  
Opistognathus scaphiurus Goode & Bean  
Opistognathus whitehurstii (Longley)  
Upsilonognathus chaplini Fowler

## Literature:

Johnson 1984; FAO List

## OPISTHOPOCTIDAE

	E L J
<u>Rhynchohyalus natalensis</u> (Gilchrist & von Bonde)	X
<u>Dolichopteryx binocularis</u> Beebe	X
<u>Dolichopteryx longipes</u> (Vaillant)	X
<u>Opisthoproctus grimaldii</u> Zugmayer	X
<u>Opisthoproctus soleatus</u> Vaillant	
<u>Bathylychnops brachyrhynchus</u> (Parr)	

## Literature:

Bertelsen et al 1965; Roule & Angel 1930; Beebe 1933a; Schmidt 1918;  
Ahlstrom et al 1984; J. Badcock. 1988. J. Fish. Biol. 32:423-432.

## OREOSOMATIDAE

	E L J
<u>Allocyttus verrucosus</u> (Gichrist)	
<u>Oreosoma atlanticum</u> Cuvier	X
<u>Pseudocyttus maculatus</u> Gilchrist	

## Literature:

Tighe & Keene 1984; Karrer & Eschmeyer ms

## OSTRACIIDAE

	E L J
<u>Lactophrys bicaudalis</u> (Linnaeus)	
<u>Lactophrys polygonia</u> (Poey)	
<u>Lactophrys quadricornis</u> (Linnaeus)	x x
<u>Lactophrys trigonus</u> (Linnaeus)	
<u>Lactophrys triqueter</u> (Linnaeus)	

## Literature:

Aboussouan & Leis 1984

## PARALEPIDIDAE

	E L J
<u>Paralepis coregonoides</u> Risso	
<u>Magnisudis atlantica</u> Kroeyer	
<u>Arctozenus rissoii</u> (Bonaparte)	
<u>Lestidium atlanticum</u> Borodin	
<u>Lestidiops affinis</u> (Ege)	
<u>Lestidiops mirabilis</u> (Ege)	
<u>Lestidiops jayakari</u> (Boulenger)	
<u>Lestrolepis intermedia</u> (Poey)	
<u>Macroparalepis affine</u> Ege	
<u>Macroparalepis breve</u> Ege	
<u>Stemonosudis bullisi</u> Rofen	
<u>Stemonosudis gracile</u> (Ege)	
<u>Stemonosudis intermedia</u> (Ege)	
<u>Stemonosudis rothschildi</u> Richards	
<u>Uncisudis advena</u> (Rofen)	
<u>Sudis hyalina</u> Rafinesque	x x

## Literature:

Okiyama 1984; Rofen 1966b; Ege 1957; Post 1987. Arch. FischWiss 38 (1/2):75-131.

## PARAZENIDAE

Parazen pacificus Kamohara

E L J

## Literature:

larvae unknown; Mead 1957

## PEMPHERIDAE

Pempheris poeyi Bean

Pempheris schomburgki Mueller & Troschel

E L J

x x

Literature: Johnson 1984; original

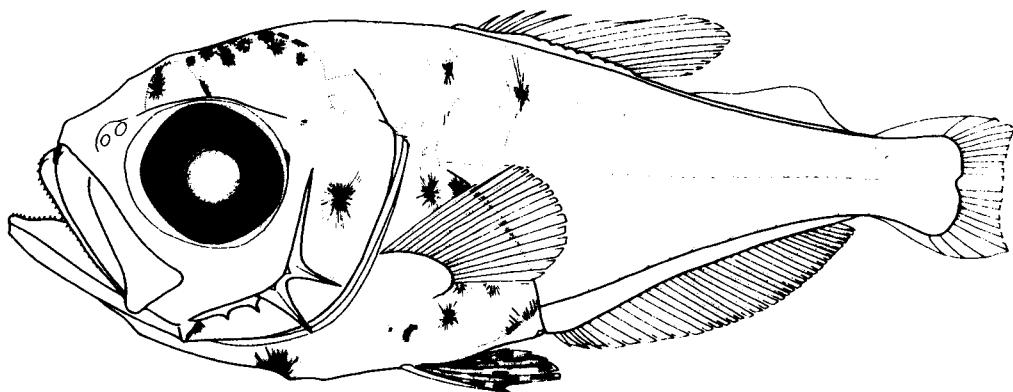


Fig. 11. Pempheris schomburgki, 7.8 mm SL, Gulf of Mexico.

## PERCOPHIDAE

E L J

- Bembrops anatirostris Ginsburg  
Bembrops gobiooides (Goode)  
Bembrops magnisquamis Ginsburg  
Bembrops macromma Ginsburg  
Chriomystax squamentum Ginsburg

## Literature:

Watson, Matarese, & Stevens 1984; Ginsburg 1955; Grey, M. 1959. Deep sea fishes from the Gulf of Mexico with a description of a new species Squalogadus intermedius (Macrouroididae). Fieldiana Zool. 39(29):323-346; Iwamoto & Staiger 1976.

Ginsburg 1955 notes that two Brazilian species have been described Percophis brasiliensis Quoy & Gaimard (with high counts D IX-31, A 41) and Hypsicometes heterurus Mirando Reibeiro similar to Bembrops.

Larvae being described by Richards (ms)

Fig. 12. Bembrops anatirostris,

2.0 mm SL,

OREGON II St. 45413.

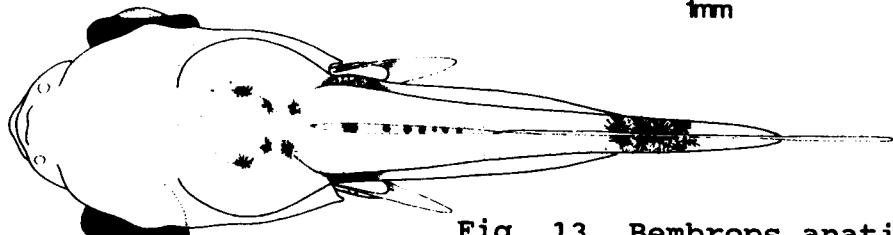
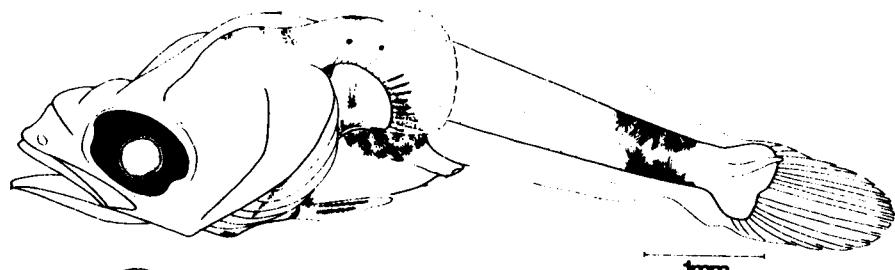
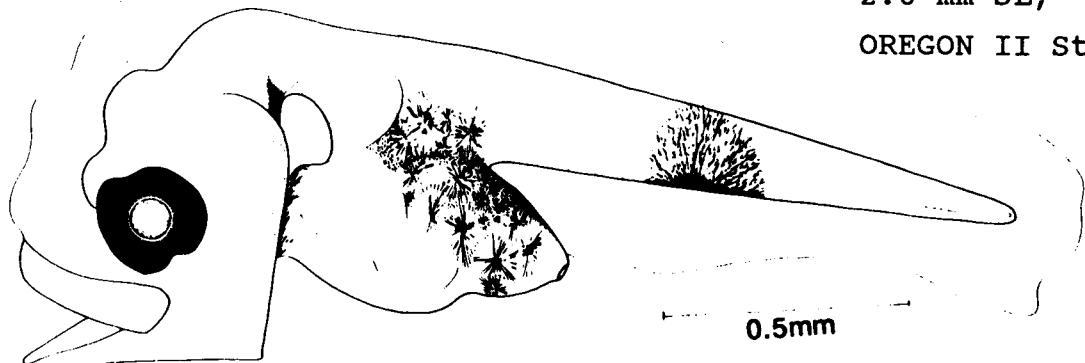
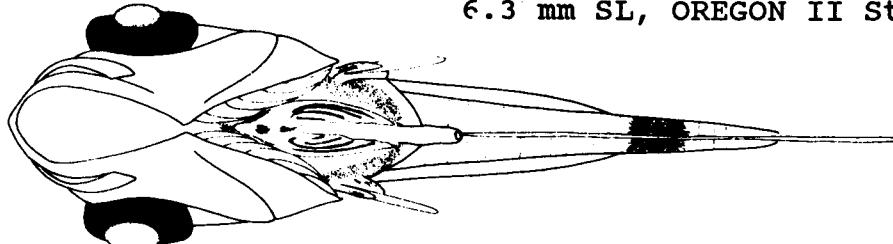


Fig. 13. Bembrops anatirostris,

6.3 mm SL, OREGON II St. 45372.



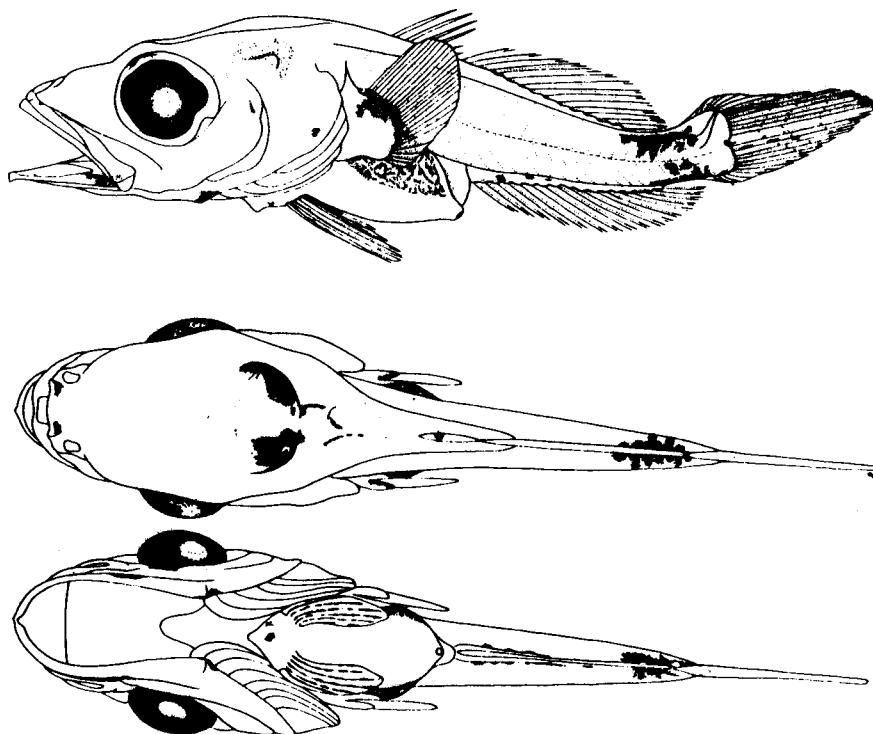


Fig. 14. Bembrops anatirostris, 9.4 mm SL, Straits of Florida, SEFCAR

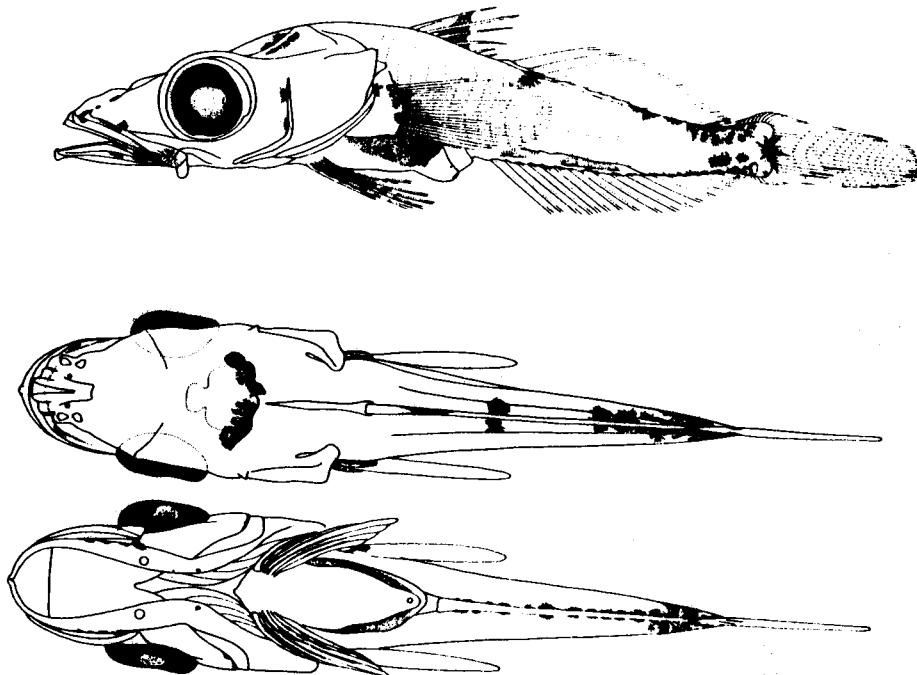


Fig. 15. Bembrops anatirostris, 15.0 mm SL, Straits of Florida, SEFCAR.

## PERISTEDIIDAE

E L J

<u>Peristedion unicuspis</u>	Miller	
<u>Peristedion greyae</u>	Miller	x
<u>Peristedion longispatha</u>	(Goode & Bean)	x
<u>Peristedion miniatum</u>	(Goode)	x
<u>Peristedion gracile</u>	Goode & Bean	x
<u>Peristedion thompsoni</u>	Fowler	x
<u>Peristedion platycephalum</u>	(Goode & Bean)	x
<u>Peristedion antillarum</u>	Teague	
<u>Peristedion imberbe</u>	(Poey)	
<u>Peristedion truncatum</u>	(Guenther)	
<u>Peristedion ecuadorense</u>	Teague	
<u>Peristedion brevirostre</u>	(Guenther)	
<u>Peristedion sp.</u>	(Miller ms)	
<u>Peristedion altipinnis</u>	(Regan)	

Literature: Miller ms

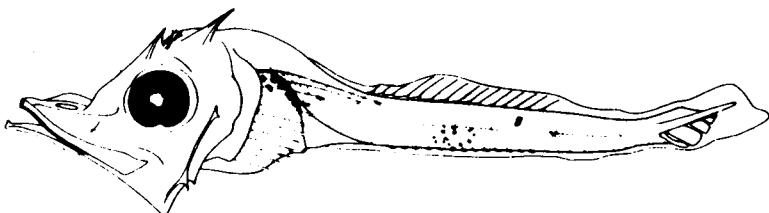


Fig. 16. Peristedion sp., 6.2 mm SL, OREGON II St. 45405.

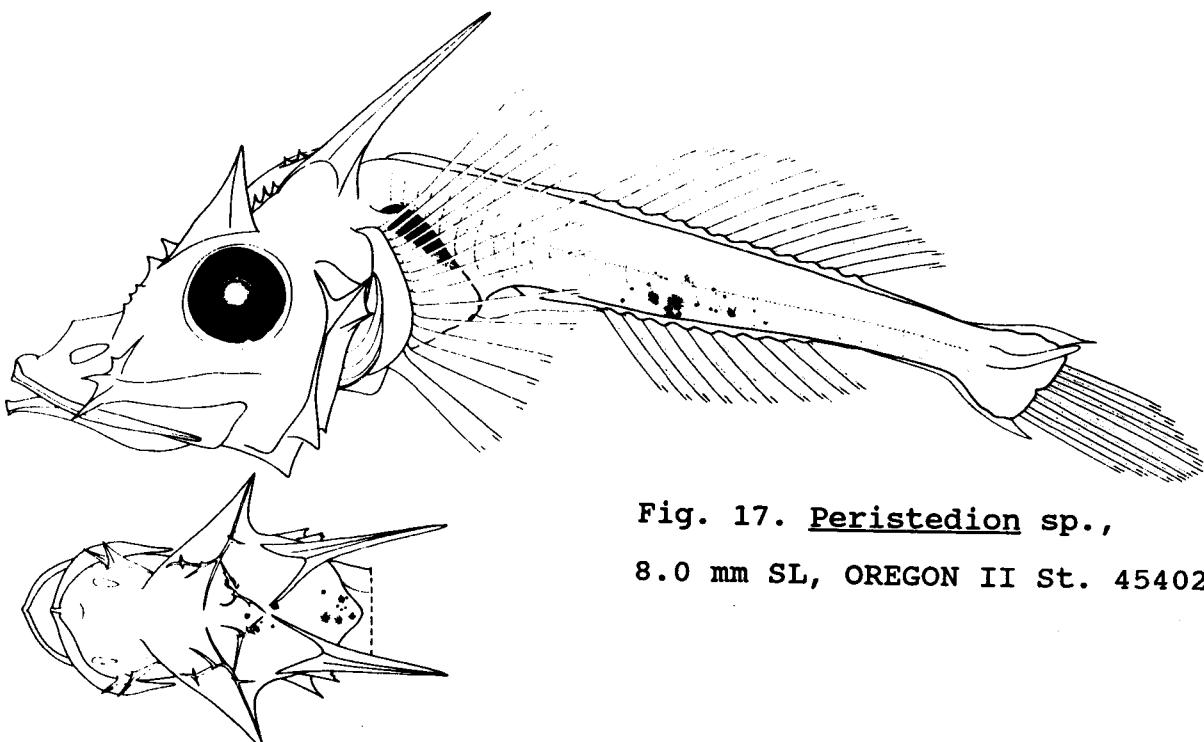


Fig. 17. Peristedion sp.,  
8.0 mm SL, OREGON II St. 45402.

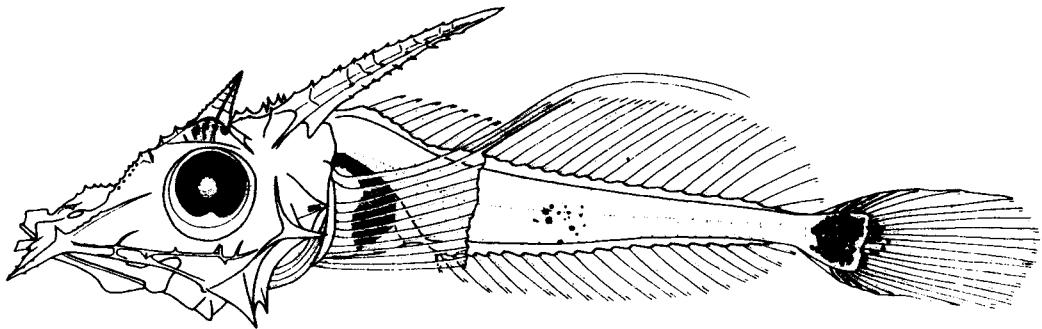


Fig. 18. Peristedion sp., 11.7 mm SL, OREGON II St. 45404.

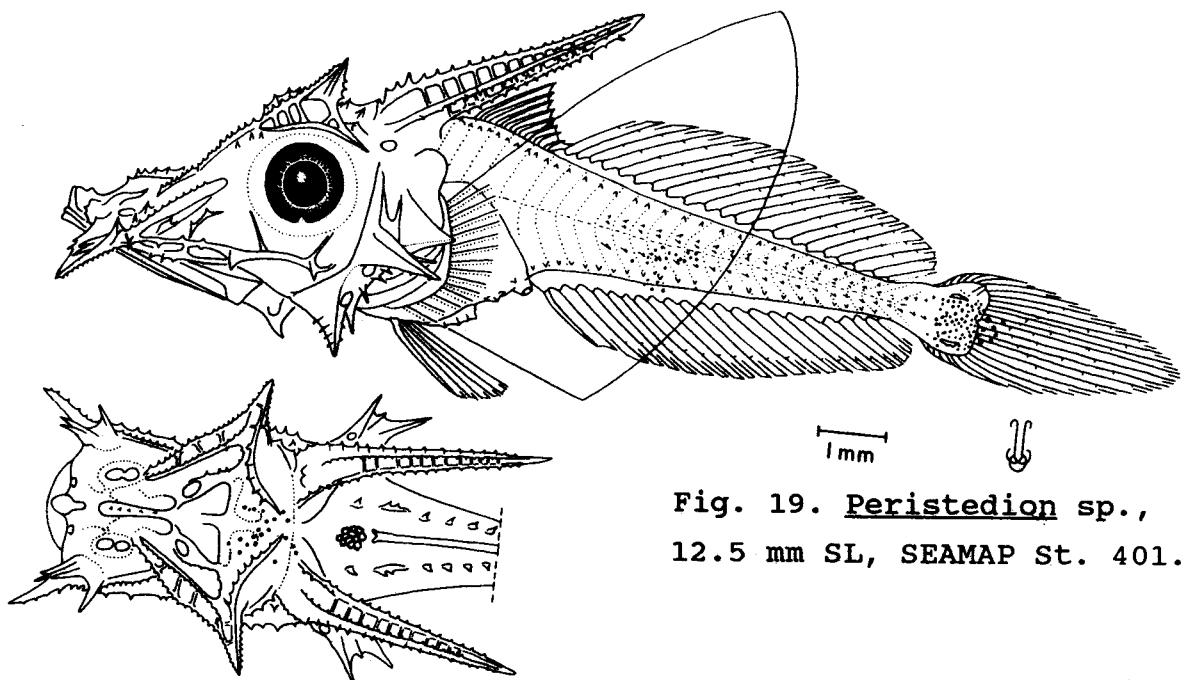


Fig. 19. Peristedion sp.,  
12.5 mm SL, SEAMAP St. 401.

## PLEURONECTIDAE

E L J

Poecilopsetta beanii GoodePoecilopsetta inermis (Breder)Poecilopsetta albomarginata ReidPseudopleuronectes americanus (Walbaum)

x x x

Literature: Norman 1934; Ahlstrom et al. 1984

I collected one larvae identical to P.hawaiensis in deep tow in Gulf.  
 Gutherz routinely collects juveniles in deep drags in Gulf.

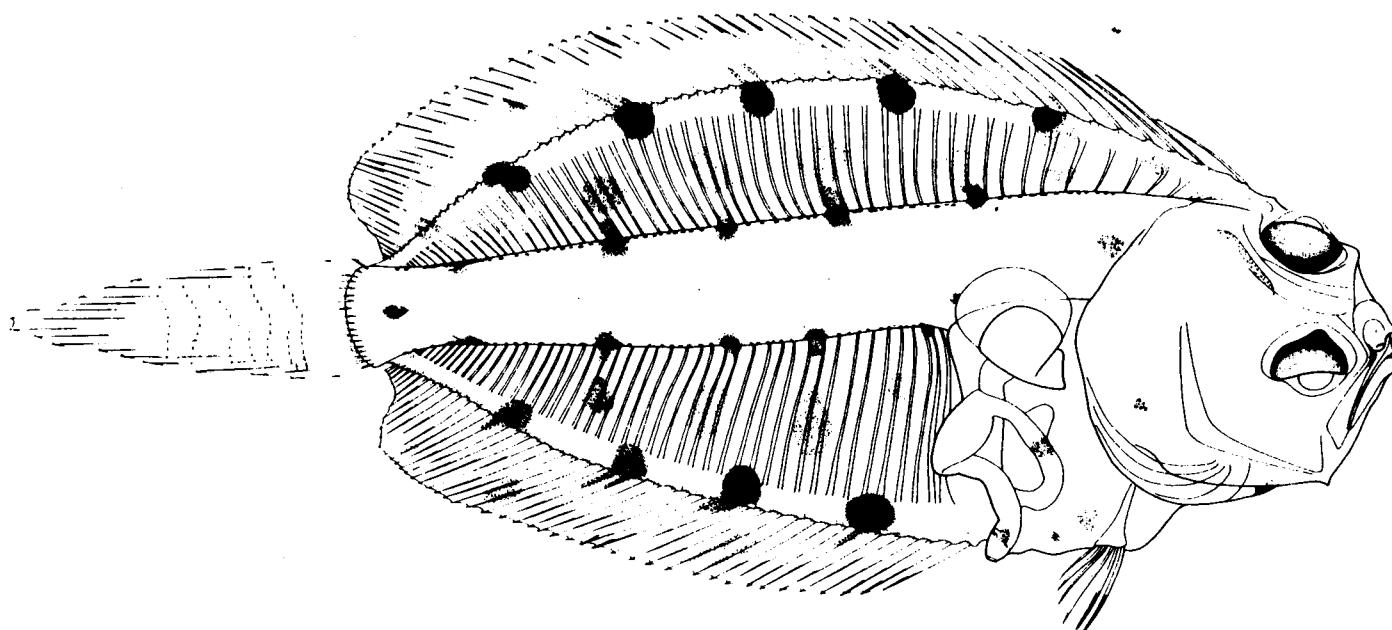


Fig. 20. Poecilopsetta sp., 19.1 mm SL, OREGON II St. 47590.

## POLYMIIXIIDAE

Polymixia nobilis Lowe  
Polymixia lowei Guenther

E L J  
 X X

## Literature:

Olney 1984 ( in Lampridiform account p.379)

## POLYNEMIDAE

Polydactylus octonemus (Girard)  
Polydactylus oligodon (Guenther)  
Polydactylus virginicus (Linnaeus)

E L J

Literature: de Sylva 1984; FAO list; Leis & Trnski 1989

## POMACANTHIDAE

Centropyge argi Woods & Kanazawa  
Centropyge auratonotus Burgess  
Holacanthus isabelita (Jordan & Rutter)  
Holacanthus ciliaris (Linnaeus)  
Holacanthus tricolor (Bloch)  
Pomacanthus arcuatus (Linnaeus)  
Pomacanthus paru (Bloch)

E L J  
 X X

X X

## Literature:

Johnson 1984; Kelley ms; Fao list by Burgess lists H. bermudensis Goode as a synonym of H. isabelita.

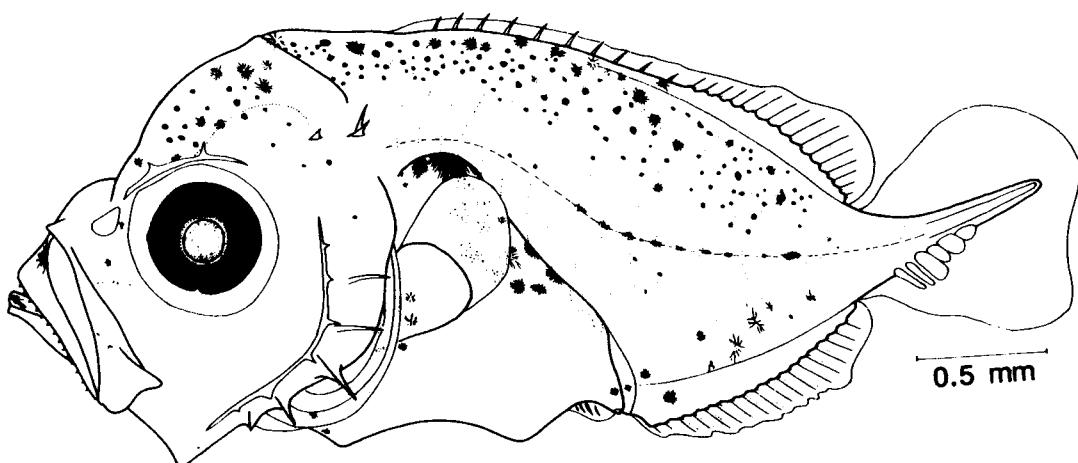


Fig. 21. Pomacanthidae, 4.0 mm NL, OREGON II St. 45475.



Fig. 22. Centropyge argi, 2.8 mm NL, OREGON II St. 45477.

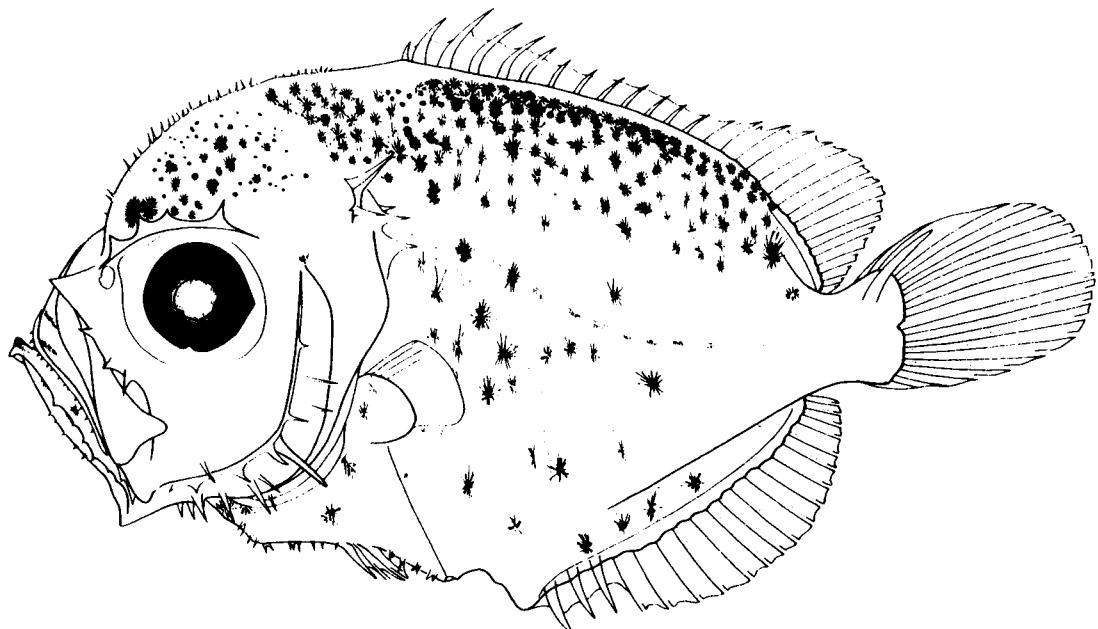


Fig. 23. Centropyge argi, 4.1 mm NL, OREGON II St. 47590.

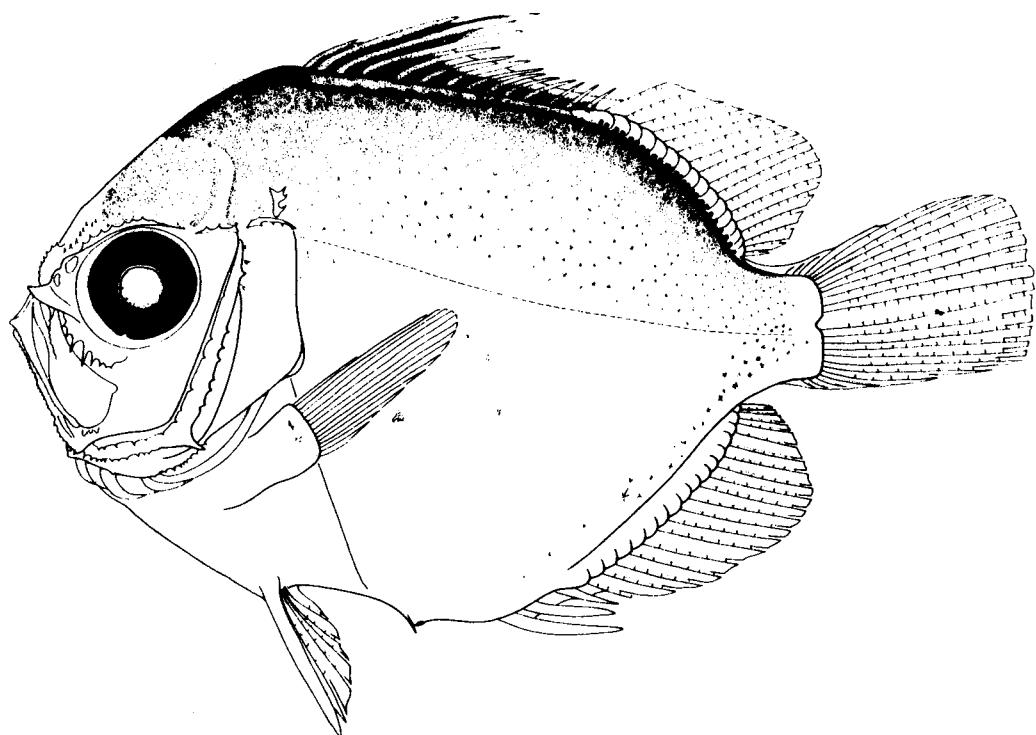


Fig. 24. Centropyge argi, 12.5 mm SL, OREGON II St. 47590.

## POMACENTRIDAE

E L J

- Abudefduf saxatilis (Linnaeus)  
Abudefduf taurus (Mueller & Troschel)  
Chromis cyanea (Poey)  
Chromis enchrysura Jordan & Gilbert  
Chromis flavicauda (Guenther)  
Chromis insolata (Cuvier)  
Chromis multilineata (Guichenot)  
Chromis scotti Emery  
Eupomacentrus diencaeus Jordan & Rutter  
Eupomacentrus dorsopunicans (Poey)  
Eupomacentrus fuscus Cuvier  
Eupomacentrus leucostictus Mueller & Troschel  
Eupomacentrus mellis Emery & Burgess  
Eupomacentrus otophorus (Poey)  
Eupomacentrus partitus Poey  
Eupomacentrus pictus (Castelnau)  
Eupomacentrus planifrons Cuvier  
Eupomacentrus rocasensis Emery  
Eupomacentrus variabilis (Castelnau)  
Microspathodon chrysurus (Cuvier & Valenciennes)

x x

Literature: Johnson 1984; Potthoff, T., S. Kelley, V. Saksena, M. Moe, & F. Young. 1987. Description of larval and juvenile yellowtail damselfish Microspathodon chrysurus, Pomacentridae, and their osteological development. Bull. Mar. Sci. 40:330-375.

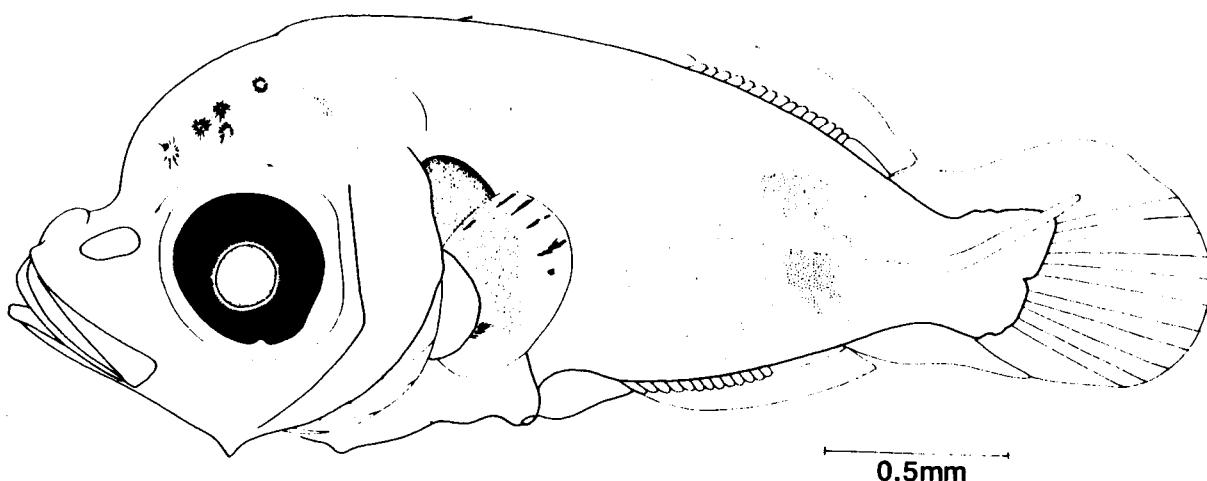


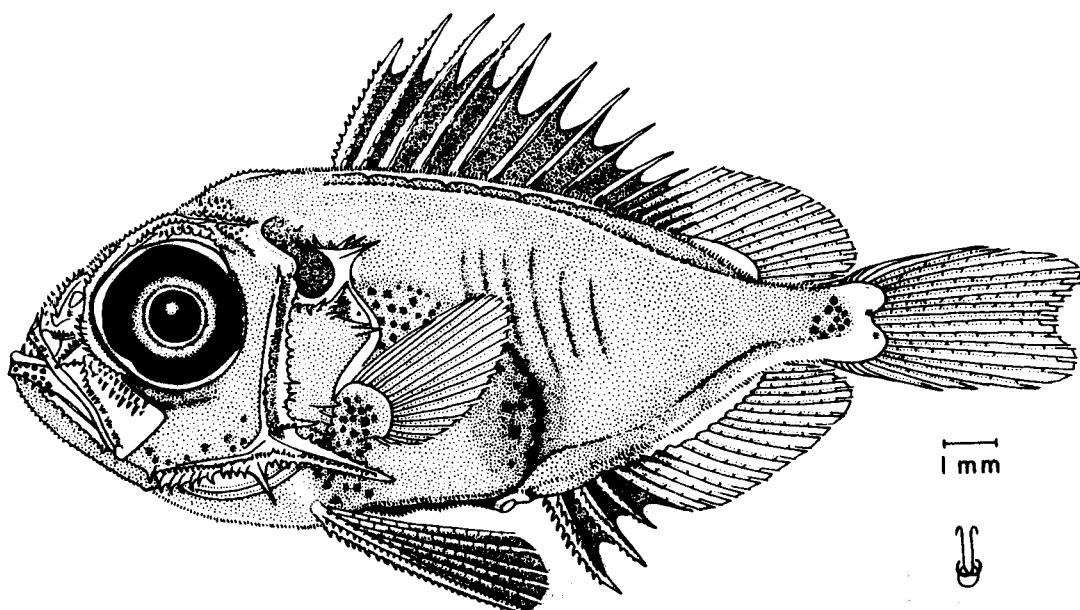
Fig. 25. Pomacentridae, 2.9 mm NL, OREGON II St. 45476.

## POMATOMIDAE

E L J  
x x xPomatomus saltatrix (Linnaeus)

Literature: Hardy 1978b; Johnson 1984

## PRIACANTHIDAE

E L J  
x xPristigenys alta (Gill)Cookeolus japonicus (Cuvier)Heteropriacanthus cruentatus (Lacepede)Priacanthus arenatus CuvierLiterature: Johnson 1984. Starnes, W. C. 1988. Revision...  
Bull. Mar. Sci. 43(2):117-203Fig. 26. Priacanthus arenatus, 16.5 mm SL, Straits of Florida.

## PSYCHROLUTIDAE

E L J

Cottunuculus thomsonii (Guenther)

Literature: J.S. Nelson. 1989. Cottunuculus nudus, a new psychrolutid fish from New Zealand (Scorpaeniformes: Cottoidei). Copeia 1989 (2): 401-408.

## RACHYCENTRIDAE

E L J

Rachycentron canadum (Linnaeus)

x x

Literature: Johnson 1984

## RADIICEPHALIDAE

E L J

Radiicephalus elongatus Osorio

x

Literature:

Olney 1984

## REGALECIDAE

E L J

Regalecus glesne Ascanius

x x x

Literature:

Olney 1984

## RONDELETIIDAE

E L J

Rondeletia bicolor Goode & BeanRondeletia loricata Abe & Hotta

Literature:

Keene & Tighe 1984; Paxton 1974. J. Mar. biol ass. India 15(1):175-188.

## SACCOPHARYNGIDAE

E L J

Saccopharynx ampullaceus (Harwood)Saccopharynx thalassa Nielsen & BertelsenSaccopharynx harrisoni BeebeSaccopharynx sp.

x

Literature: Smith 1989; Smith 1989

## SCARIDAE

E L J

- Cryptotomus roseus Cope  
Nicholsina usta Valenciennes  
Scarus coelstinus Valenciennes  
Scarus coeruleus (Bloch)  
Scarus croicensis Bloch  
Scarus guacamaia Cuvier  
Scarus taeniopterus Desmarest  
Scarus vetula Bloch & Schneider  
Sparisoma atomarium (Poey)  
Sparisoma aurofrenatum Valenciennes  
Sparisoma chrysopterum (Bloch & Schneider)  
Sparisoma radians (Valenciennes)  
Sparisoma rubripinne (Valenciennes)  
Sparisoma viride (Bonnaterre)

Literature: Richards & Leis 1984

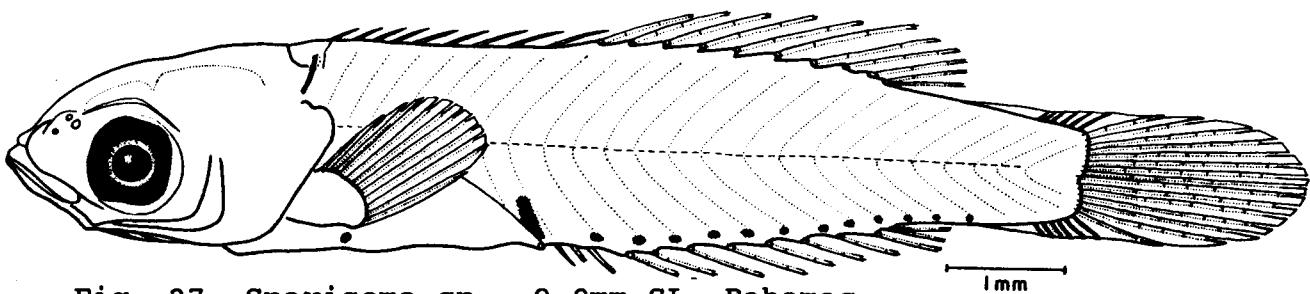


Fig. 27. Sparisoma sp., 9.0 mm SL, Bahamas.

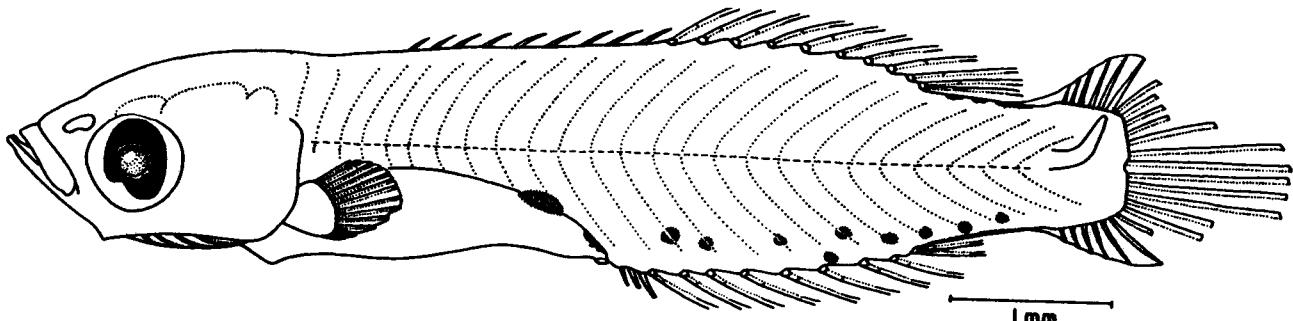


Fig. 28. Scarus sp., 6.8 mm SL, Bahamas.

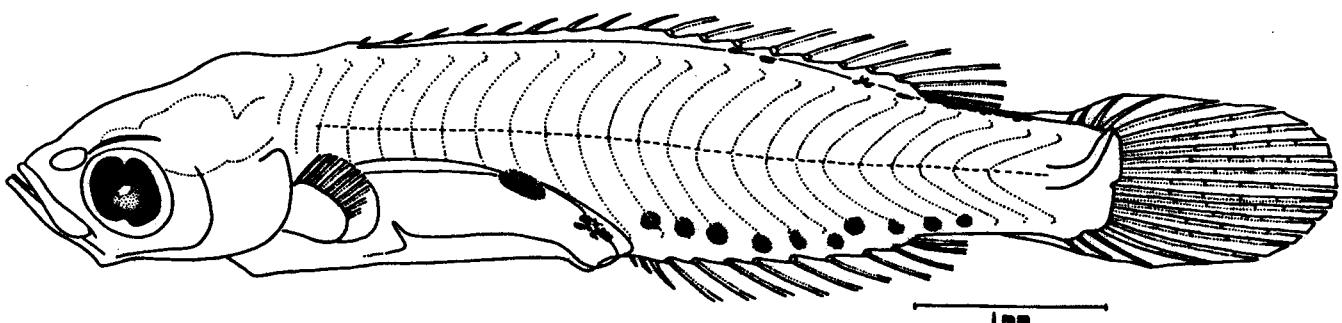


Fig. 29. Scarus sp., 5.7 mm SL, Bahamas.

Fig. 30. Scarus sp., 7.2 mm SL, Bahamas.

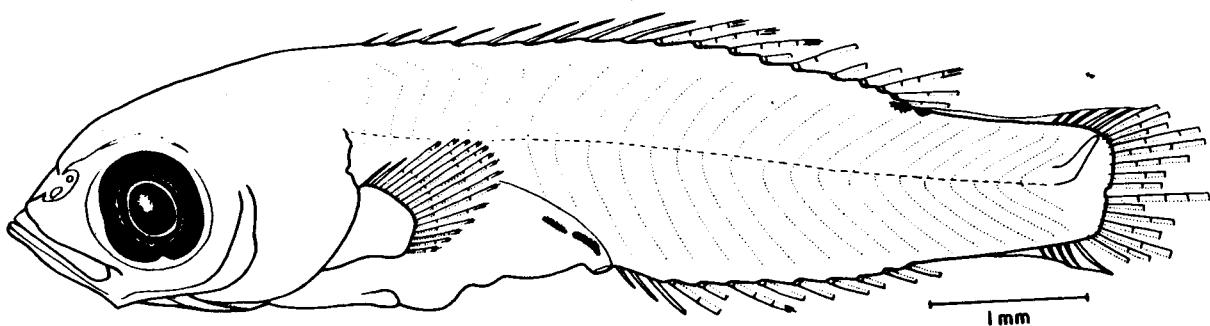
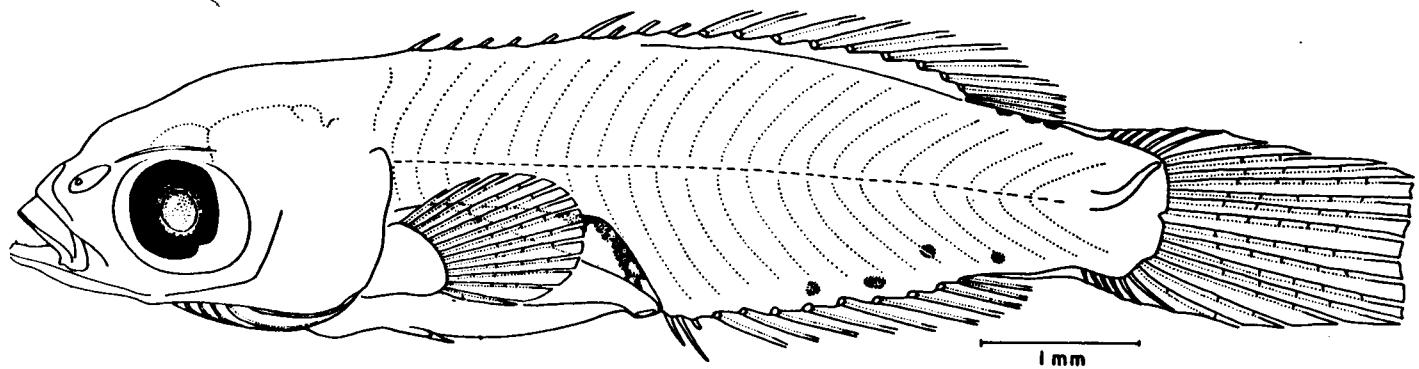


Fig. 31. Scarus sp., 6.8 mm SL, Bahamas.

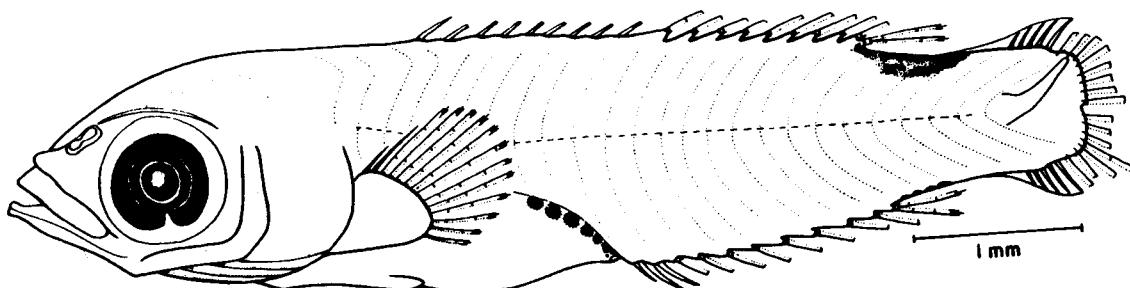


Fig. 32. Scarus sp., 6.6 mm SL, Bahamas.

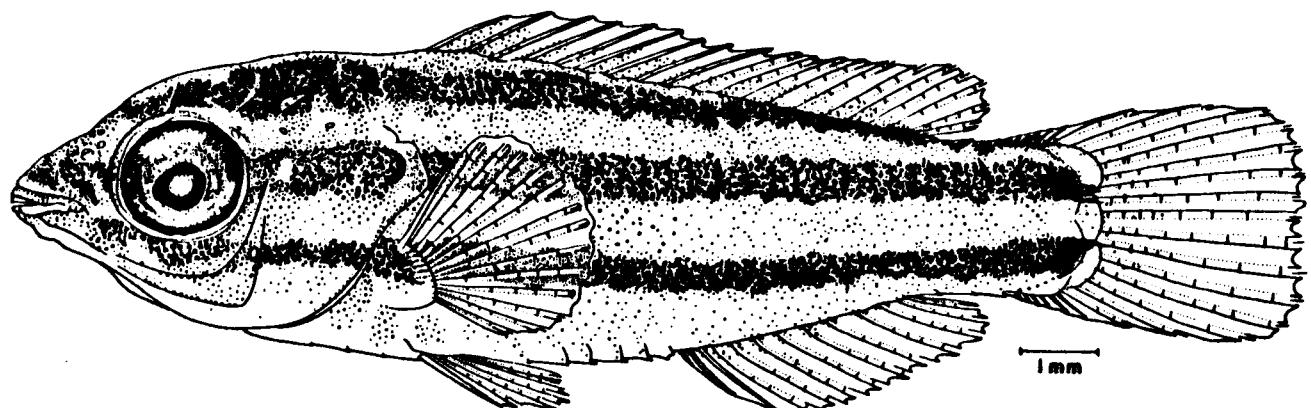


Fig. 33. Scarus sp., 13.4 mm SL, Bahamas.

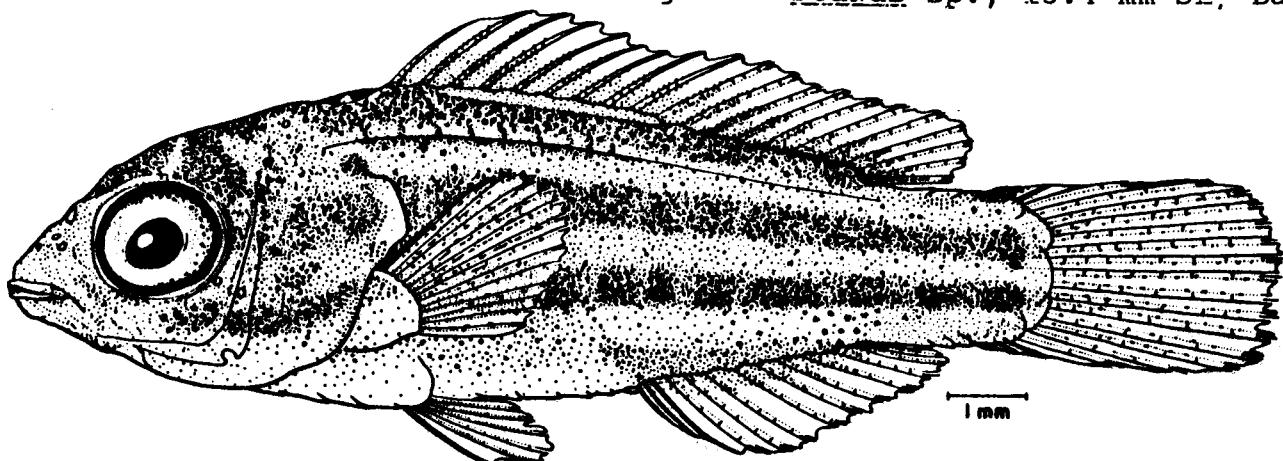


Fig. 34. Scarus sp., 12.8 mm SL, Bahamas.

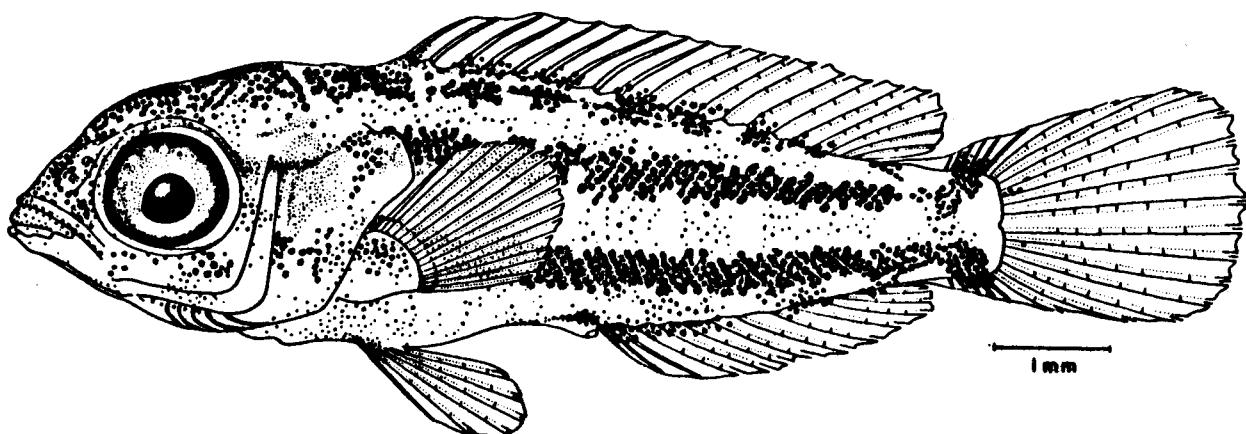


Fig. 35. Scarus sp., 8.3 mm SL, Bahamas.

SCIAENIDAE	E L J
<u>Bairdiella batabana</u> (Poey)	
<u>Bairdiella chrysoura</u> (Lacepede)	x x x
<u>Bairdiella ronchus</u> (C & V)	
<u>Bairdiella sanctaeluciae</u> (Jordan)	
<u>Ctenosciaena gracilicirrus</u> (Metzelaar)	
<u>Cynoscion acoupa</u> (Lacepede)	
<u>Cynoscion arenarius</u> Ginsburg	x
<u>Cynoscion jamaicensis</u> (Vaillant & Bocourt)	
<u>Cynoscion leiarchus</u> (Cuvier)	
<u>Cynoscion microlepidotus</u> (Cuvier)	
<u>Cynoscion nebulosus</u> (Cuvier)	x x
<u>Cynoscion nothus</u> (Holbrook)	x x
<u>Cynoscion regalis</u> (Bloch & Schneider)	x x x
<u>Cynoscion similis</u> (Randall & Cervigon)	
<u>Cynoscion steindachneri</u> (Jordan)	
<u>Cynoscion virescens</u> (C & V)	
<u>Equetus lanceolatus</u> (Linnaeus)	
<u>Equetus punctatus</u> (Schneider)	
<u>Pareques acuminatus</u> (Schneider)	x
<u>Pareques iwamotoi</u> Miller & Woods	x
<u>Pareques umbrosus</u> (Jordan & Eigenmann)	
<u>Isopisthus parvipinnis</u> (Cuvier)	
<u>Larimus breviceps</u> Cuvier	
<u>Larimus fasciatus</u> Holbrook	x x
<u>Leiostomus xanthurus</u> Lacepede	x x
<u>Lonchurus lanceolatus</u> (Bloch)	
<u>Macrodon ancylodon</u> (Schneider)	
<u>Menticirrus americanus</u> (Linnaeus)	x x
<u>Menticirrus littoralis</u> (Holbrook)	x
<u>Menticirrus saxatilis</u> (Bloch & Scneider)	x x x
<u>Micropogonias furnieri</u> (Desmarest)	
<u>Micropogonias undulatus</u> (Linnaeus)	x x
<u>Nebris microps</u> Cuvier	
<u>Odontoscion dentex</u> (Cuvier)	
<u>Ophioscion adustus</u> (Agassiz)	
<u>Ophioscion panamensis</u> Schultz	
<u>Ophioscion punctatissimus</u> (Meek & Hildebrand)	
<u>Paralonchurus brasiliensis</u> (Steindachner)	
<u>Paralonchurus elegans</u> Boeseman	
<u>Plagioscion squamosissimus</u> (Heckel)	
<u>Plagioscion surinamensis</u> Bleeker	
<u>Pogonias cromis</u> (Linnaeus)	x x x
<u>Sciaena bathytatos</u> Chao & Miller	
<u>Sciaena trewavasae</u> Chao & Miller	
<u>Sciaenops ocellata</u> (Linnaeus)	x x
<u>Stellifer brasiliensis</u> (Schultz)	
<u>Stellifer colonensis</u> Meek & Hildebrand	
<u>Stellifer griseus</u> Cervigon	
<u>Stellifer lanceolatus</u> (Holbrook)	x x
<u>Stellifer microps</u> (Steindachner)	
<u>Stellifer naso</u> (Jordan)	
<u>Stellifer rastrifer</u> (Jordan)	
<u>Stellifer stellifer</u> (Bloch)	
<u>Stellifer venezuelae</u> (Schultz)	
<u>Stellifer</u> sp. A	

## **SCIAENIDAE (CON'T)**

E L J

- Stellifer sp. B  
Umbrina broussonnetii Cuvier  
Umbrina coroides Cuvier  
Umbrina milliae Miller

## Literature:

Johnson 1984; Johnson 1978; Miller & Woods. 1988. Bull. Mar. Sci. 43(1):88-92. Ditty, J. G. 1989. Separating early larvae of sciaenids from the western North Atlantic: a review and comparison of larvae off Louisiana and Atlantic coast of the U. S. Bull. Mar. Sci. 44:1083-1105.

## SCOMBERESOCIDAE

- Scomberesox saurus (Walbaum)  
Scomberesox simulans (Hubbs & Wisner)

E L J  
X X X  
X X X

## Literature:

Collette, McGowen, Parin & Mito 1984

## **SCOMBRIDAE**

- Scomber japonicus Houttuyn  
Acanthocybium solandri (Cuvier)  
Scomberomorus brasiliensis Collette, Russo, & Zaval-Camin  
Scomberomorus cavalla (Cuvier)  
Scomberomorus maculatus (Mitchill)  
Scomberomorus regalis (Bloch)  
Sarda sarda (Bloch)  
Auxis rochei (Risso)  
Auxis thazard (Lacepede)  
Euthynnus alletteratus (Rafinesque)  
Katsuwonus pelamis (Linnaeus)  
Thunnus alalunga (Bonnaterre)  
Thunnus albacares (Bonnaterre)  
Thunnus atlanticus (Lesson)  
Thunnus obesus (Lowe)  
Thunnus thynnus (Bleeker)

## Literature:

Collette et al. 1984; Nishikawa, Y. and D. W. Rimmer 1987. Identification of larval tunas, billfishes and other scombroid fishes (Suborder Scombroidei): an illustrated guide. CSIRO Marine Laboratories Rept. 186: 20p. Richards, W. J. 1989. Preliminary guide to the identification of the early life history stages of scombroid fishes of the western central Atlantic. NOAA Tech. Mem. NMFS-SEFC-240:101 p.

## **SCOMBROLABRACIDAE**

- ## Scombrolabrax heterolepis Roule

E L J  
X X

Literature: Collette et al. 1984; Richards 1989

## SCOMBROPIDAE

E L J

Scombrops oculatus (Poey)

Literature: Johnson 1984

## SCOPELARCHIDAE

E L J

Benthabella infans Zugmayer                    x x  
Scopelarchoides danae Johnson                x  
Scopelarchus analis (Brauer)                  x x  
Scopelarchus guentheri Alcock                x  
Scopelarchus michaelsarsi Koefoed            x

Literature:

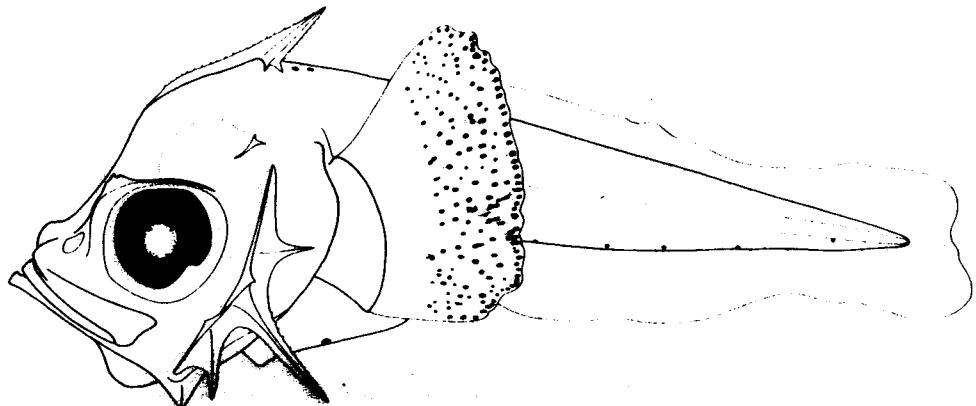
Johnson 1982; Okiyama 1984

## SCORPAENIDAE

E L J

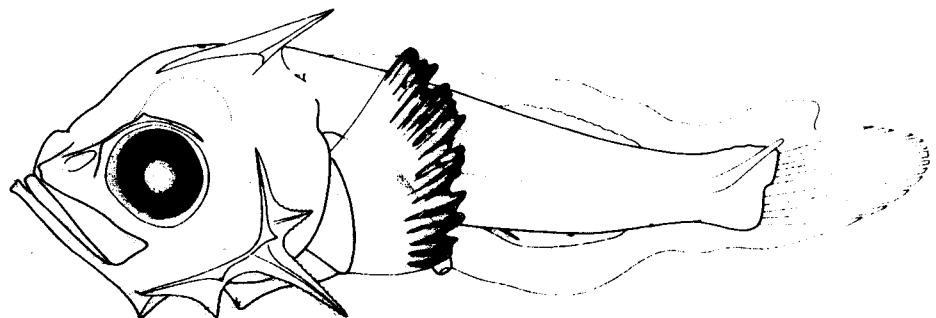
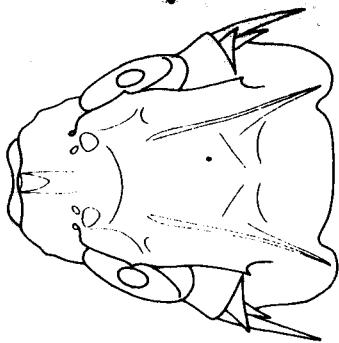
Ectrepobaste imus Garman  
Helicolenus dactylopterus (Delaroche)  
Idiastion kyphos Eschmeyer  
Neomerinthe beanorum (Evermann & Marsh)  
Neomerinthe hemingwayi Fowler  
Trachyscorpia cristulata (Goode & Bean)  
Phenacoscorpius nebris Eschmeyer  
Pontinus corallinus Miranda Ribeiro  
Pontinus helena Eschmeyer  
Pontinus castor Poey  
Pontinus longispinis Goode & Bean  
Pontinus macrolepis Goode & Bean  
Pontinus nematophthalmus (Guenther)  
Pontinus rathbuni Goode & Bean  
Scorpaena albifimbria Evermann & Marsh  
Scorpaena agassizi Goode & Bean  
Scorpaena berqi Evermann & Marsh  
Scorpaena isthmensis Meek & Hildebrand  
Scorpaena brachyptera Eschmeyer  
Scorpaena brasiliensis Cuvier  
Scorpaena calcarata Goode & Bean  
Scorpaena inermis Cuvier  
Scorpaena plumieri Bloch  
Scorpaena dispar Longley & Hildebrand  
Scorpaena elachys Eschmeyer  
Scorpaena grandicornis Cuvier  
Scorpaena melasma Eschmeyer  
Scorpaena petricola Eschmeyer  
Scorpaenodes caribbaeus Meek & Hildebrand  
Scorpaenodes tredecimspinosus (Metzelaar)  
Setarches guentheri Johnson

Literature: Washington et al. 1984; FAO List by Eschmeyer; Eschmeyer 1969 (notes that P. macrolepis is jr syn of P. nematophthalmus, but in FAO list it is listed); Scorpaena melasma & S. petricola are south of our area.



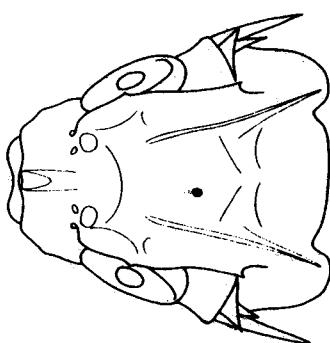
**Fig. 36. Scorpaenidae,**

**3.2 mm SL, Gulf of Mexico.**



**Fig. 37. Scorpaenidae,**

**3.6 mm SL, Gulf of Mexico.**



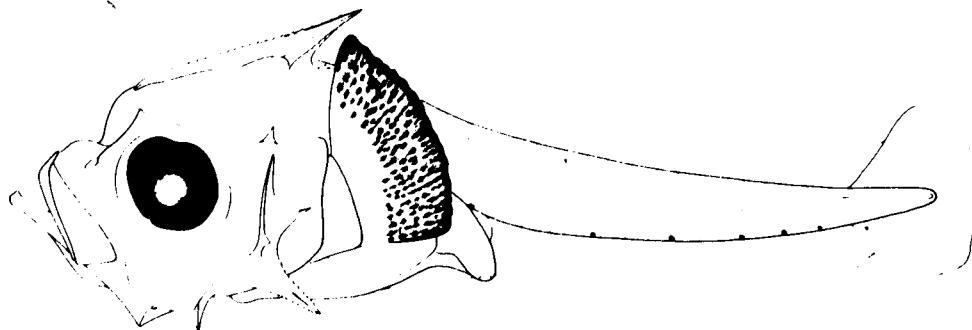


Fig. 38. Scorpænidæ,  
3.3 mm SL, Gulf of Mexico.

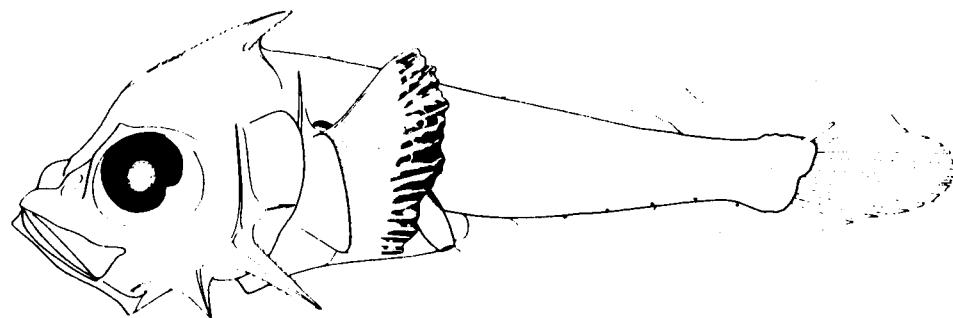


Fig. 39. Scorpænidæ, 4.0 mm SL, Gulf of Mexico.

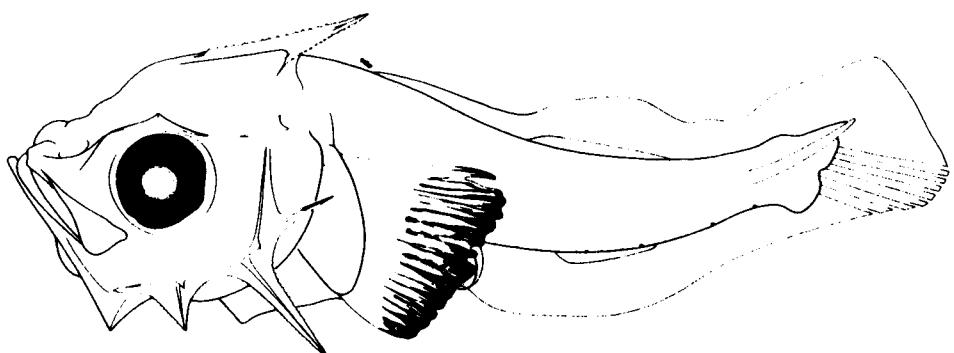


Fig. 40. Scorpænidæ, 4.7 mm SL, Gulf of Mexico.

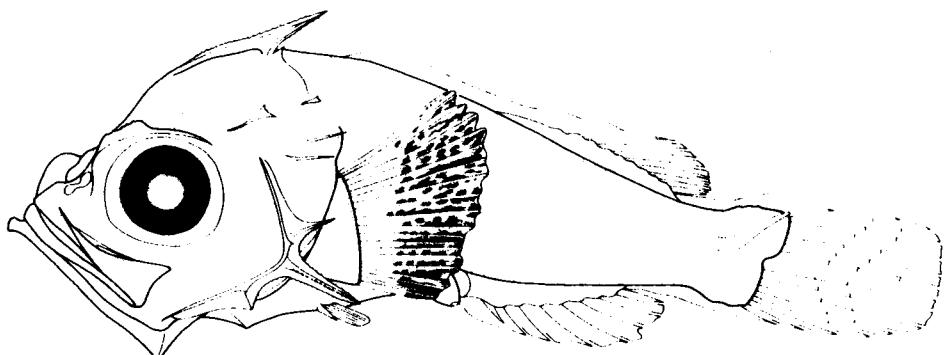


Fig. 41. Scorpaenidae, 4.7 mm SL, Gulf of Mexico.

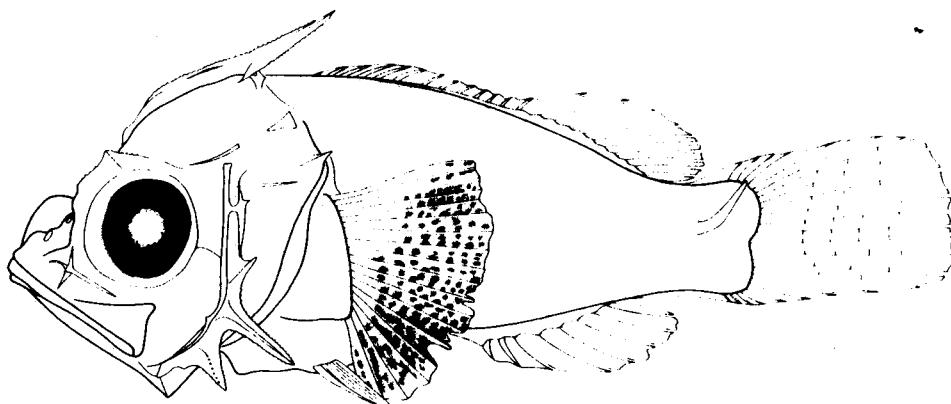


Fig. 42. Scorpaenidae,  
5.0 mm SL, Gulf of Mexico.

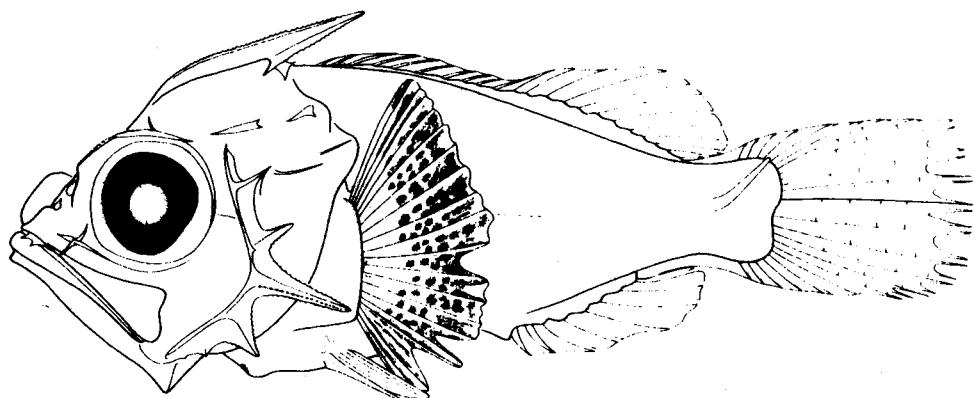
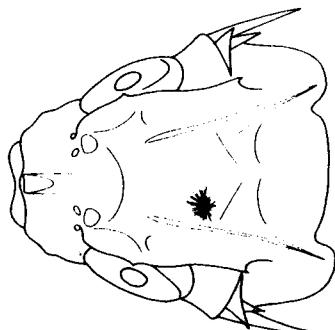


Fig. 43. Scorpaenidae, 5.6 mm SL, Gulf of Mexico.

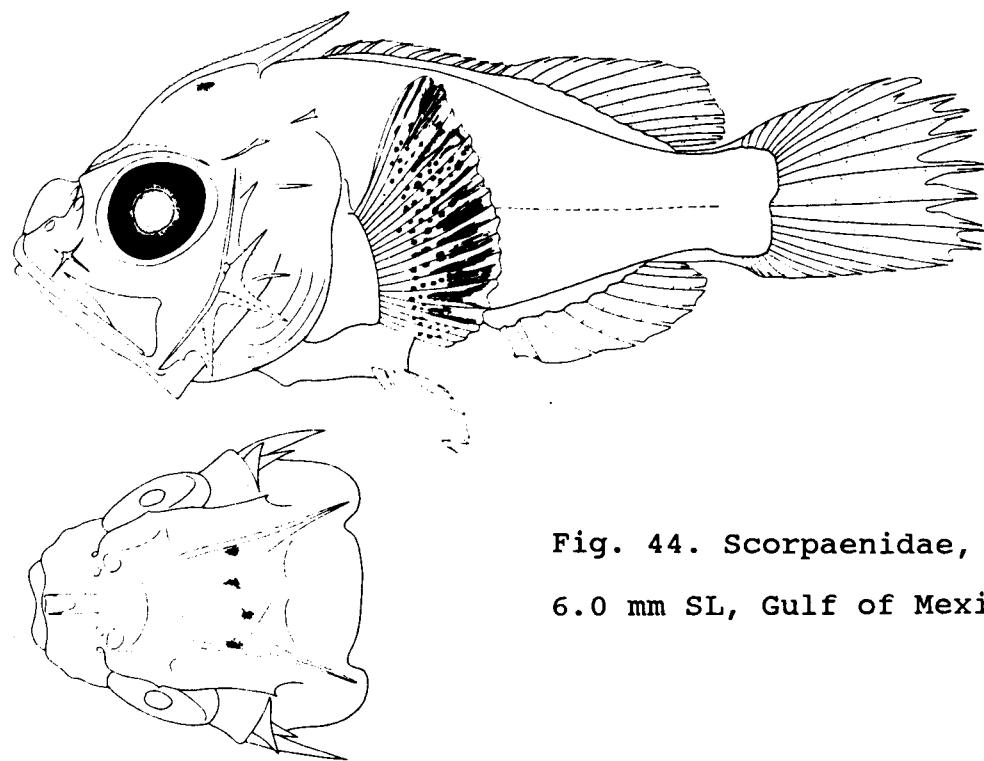


Fig. 44. *Scorpaenidae*,  
6.0 mm SL, Gulf of Mexico.

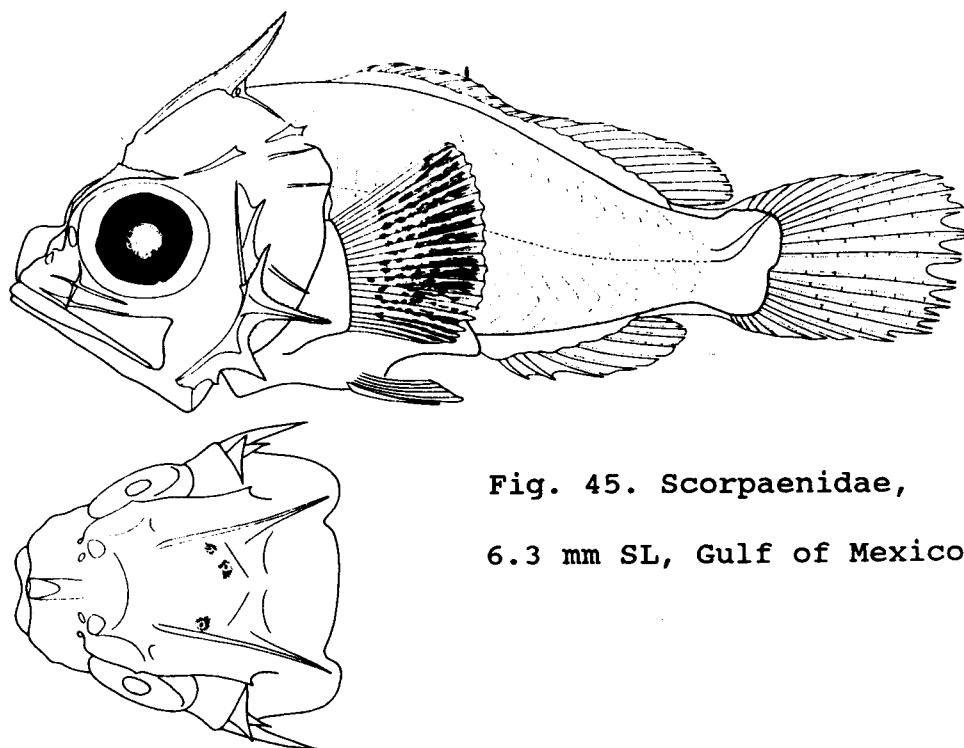


Fig. 45. *Scorpaenidae*,  
6.3 mm SL, Gulf of Mexico.

## SERRANIDAE

E L J

<u>Parasphyraenops atrimanus</u> Bean	
<u>Parasphyraenops incisus</u> (Colin)	
<u>Serranus lucioperca</u> Poey	
<u>Serranus annularis</u> (Guenther)	
<u>Serranus baldwini</u> (Evermann & Marsh)	
<u>Serranus chionaraia</u> Robins & Starck	
<u>Serranus tigrinus</u> (Bloch)	
<u>Serrauns subligarius</u> (Cope)	
<u>Serranus flaviventris</u> (Cuvier)	
<u>Serranus phoebe</u> Poey	
<u>Serranus dewegeri</u> Metzelaar	
<u>Serranus tabacarius</u> (Cuvier)	
<u>Serranus tortugaram</u> Longley	
<u>Serranus maytaqi</u> Robins & Starck	
<u>Serranus atrobranchus</u> (Cuvier)	
<u>Serranus notospilus</u> Longley	
<u>Schultzea beta</u> (Hildebrand)	
<u>Serraniculus pumilio</u> Ginsburg	x x
<u>Diplectrum bivittatum</u> (Valenciennes)	x x
<u>Diplectrum formosum</u> (Linnaeus)	x x
<u>Diplectrum radiale</u> (Quoy & Gaimard)	
<u>Hypoplectrus unicolor</u> (Walbaum)	x x
<u>Centropristes oxyurus</u> (Jordan & Evermann)	x x
<u>Centropristes philadelphica</u> (Linnaeus)	
<u>Centropristes striata</u> (Linnaeus)	x x
<u>Centropristes fuscula</u> (Poey)	
<u>Epinephelus afer</u> (Bloch)	x x
<u>Epinephelus cruentatus</u> (Lacepede)	x x
<u>Epinephelus drummondhayi</u> Goode & Bean	
<u>Epinephelus morio</u> (Valenciennes)	
<u>Epinephelus guttatus</u> (Linnaeus)	
<u>Epinephelus flavolimbatus</u> Poey	
<u>Epinephelus niveatus</u> (Valenciennes)	
<u>Epinephelus striatus</u> (Bloch)	
<u>Epinephelus adscensionis</u> (Osbeck)	
<u>Epinephelus mystacinus</u> (Poey)	x x
<u>Epinephelus nigritus</u> (Holbrook)	x x
<u>Epinephelus itajara</u> (Lichtenstein)	x x
<u>Epinephelus fulvus</u> (Linnaeus)	x x
<u>Epinephelus inermis</u> (Valenciennes)	x x
<u>Paranthias furcifer</u> (Valenciennes)	x x
<u>Gonioplectrus hispanus</u> (Cuvier)	x x
<u>Mycteroptera bonaci</u> (Poey)	x x
<u>Mycteroptera interstitialis</u> (Poey)	
<u>Mycteroptera microlepis</u> (Goode & Bean)	
<u>Mycteroptera phenax</u> Jordan & Swain	
<u>Mycteroptera rubra</u> (Bloch)	
<u>Mycteroptera tigris</u> (Valenciennes)	
<u>Mycteroptera venenosa</u> (Linnaeus)	
<u>Mycteroptera cidi</u> Cervigon	
<u>Liopropoma aberrans</u> (Poey)	
<u>Liopropoma carmabi</u> (Randall)	
<u>Liopropoma eukrines</u> (Starck & Courtenay)	
<u>Liopropoma mowbrayi</u> Woods & Kanazawa	
<u>Liopropoma rosea</u> (Guenther)	

## SERRANIDAE

E L J

- Liopropoma rubre Poey  
Pikea mexicana (Schultz)  
Bullisichthys caribbaeus Rivas  
Anthias nicholsi Firth  
Anthias tenuis Nichols  
Anthias woodsi Anderson & Heemstra  
Anthias asperilinquis Guenther  
Hemanthias aureorubens (Longley)  
Hemanthias leptus (Ginsburg)  
Hemanthias vivanus (Jordan & Swain)  
Holanthias martinicensis (Guichenot)  
Plectranthias garrupellus Robins & Starck

x x  
x x  
x x

Literature: Kendall 1984; Anderson & Heemstra 1980; Johnson, G.D. & W.F. Smith-Vaniz 1987. Bull. Mar. Sci. 40(1):48-58; Johnson, G.D. & P. Keener. 1984. Bull. Mar. Sci. 34(1):106-134; FAO list by C. L. Smith.

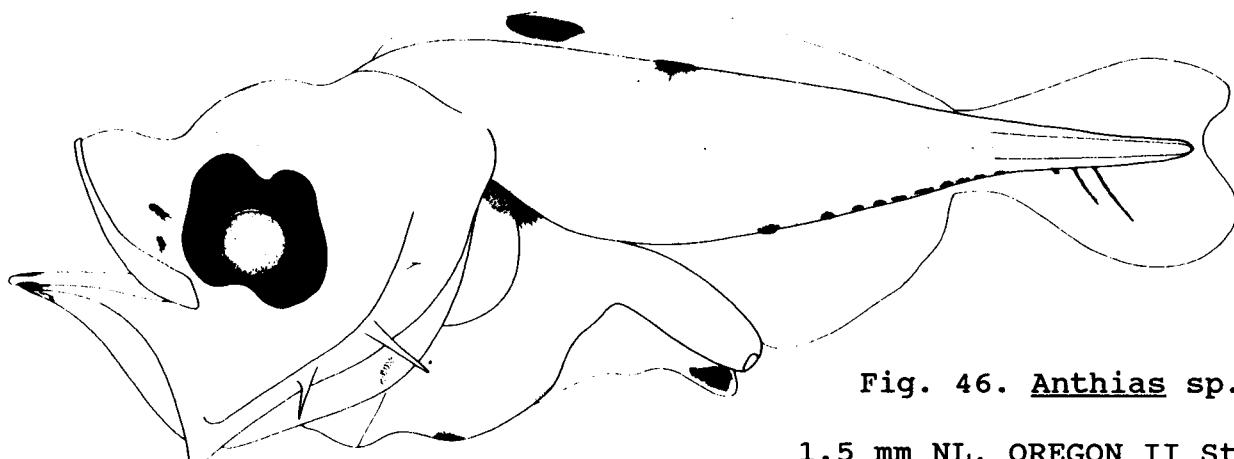


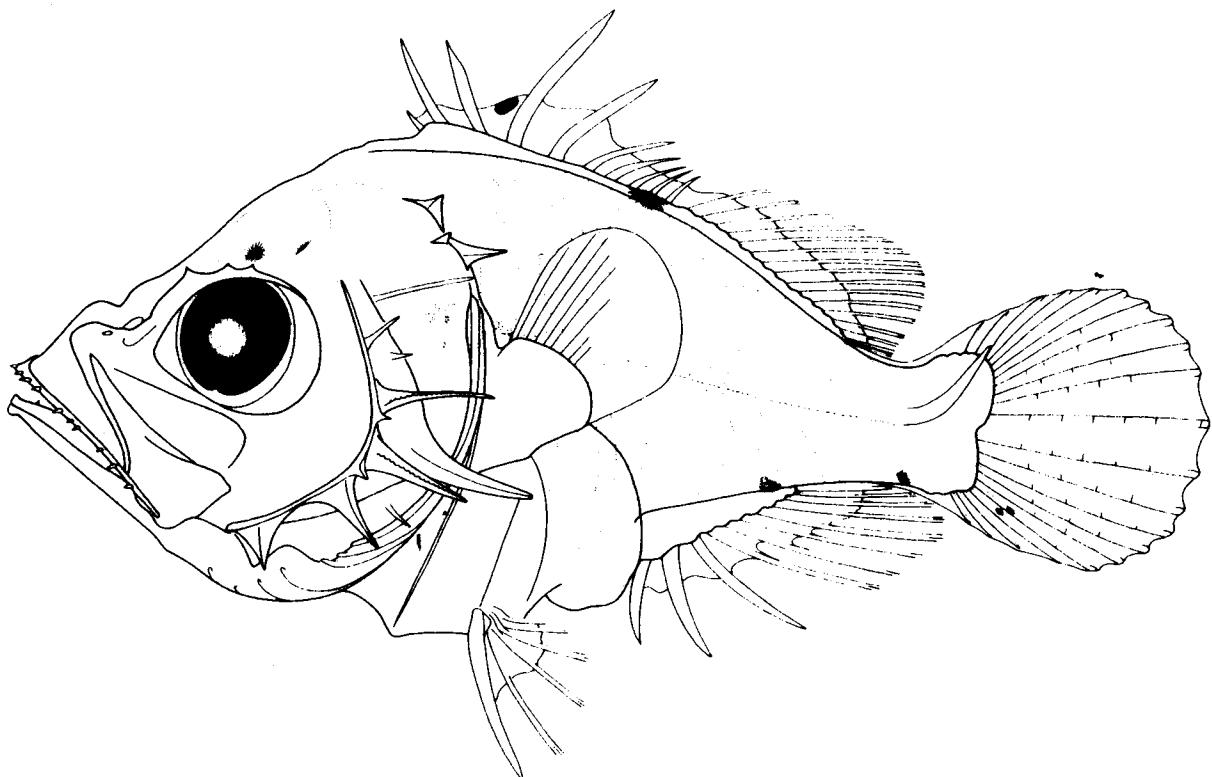
Fig. 46. Anthias sp.,

1.5 mm NL, OREGON II St. 47587.



Fig. 47. Anthias sp., 1.8 mm NL, OREGON II St. 47587.

Fig. 46. Anthias sp., 6.0 mm NL, OREGON II St. 47587.



## SERRIVOMERIDAE

Serrivomer beanii Gill & Ryder  
Serrivomer lanceolatoides (Schmidt)  
Stemonidium hypomelas Gilbert

E L J  
x  
x  
x

Literature: Tighe 1989; Tighe 1989

## SOLEIDAE

Achirus achirus (Linnaeus)  
Achirus declivus Chabanaud  
Achirus lineatus (Linnaeus)  
Apionichthys dumerili Kaup  
Gymnachirus melas Nichols  
Gymnachirus nudus Kaup  
Gymnachirus texae (Gunter)  
Soleonasus finis Eigenmann  
Trinectes inscriptus (Gosse)  
Trinectes maculatus (Bloch & Schneider)  
Trinectes paulistanus (Ribeiro)

E L J  
x x x  
x x x  
x x x

Literature: Ahlstrom et al. 1984

## SPARIDAE

Archosargus probatocephalus (Walbaum)  
Archosargus rhomboidalis (Linnaeus)  
Calamus arctifrons Goode & Bean  
Calamus bajonado (Bloch & Schneider)  
Calamus calamus (Valenciennes)  
Calamus campechanus Randall & Caldwell  
Calamus cervigoni Randall & Caldwell  
Calamus leucosteus Jordan & Gilbert  
Calamus nodosus Randall & Caldwell  
Calamus penna (Valenciennes)  
Calamus pennatula Guichenot  
Calamus proridens Jordan & Gilbert  
Diplodus argenteus caudimacula (Poey)  
Diplodus holbrooki (Bean)  
Diplodus bermudensis Caldwell  
Lagodon rhomboides (Linnaeus)  
Pagrus pagrus Linnaeus  
Stenotomus caprinus Bean  
Stenotomus chrysops (Linnaeus)

E L J  
x x x  
x x x  
x x x  
x x x

Literature:  
Johnson 1984

## SPHYRAENIDAE

Sphyraena barracuda (Walbaum)  
Sphyraena borealis DeKay  
Sphyraena guachancho Cuvier  
Sphyraena picudilla Poey

E L J  
x x  
x x

Literature: de Sylva 1984; FAO list-possibly S. sphyraena from area.

## STEINDACHNERIIDAE

Steindachneria argentea Goode & BeanE L J  
x x

## Literature:

Fahay & Markle 1984; Fahay, M. P. 1989. The ontogeny of Steindachneria argentea Goode & Bean with comments on its relationships. Pages 143-158 in Cohen, D. M. (Ed.). Papers on the systematics of gadiform fishes. Nat. Hist. Mus. Los Angeles Cty. Sci. Ser. No. 32: 262 pp.

## STEPHANOBERYCIDAE

Stephanoberyx monae Gill  
Acanthochaenurus luetkeni Gill

E L J

## Literature:

Keene &amp; Tighe 1984

## STERNOPTYCHIDAE (and related families)

Maurolicus muelleri (Gmelin)  
Valencienellus tripunctulatus (Esmark)  
Argyriplus atlanticus Maul  
Polyipnus asteroides Schultz 1938  
Polyipnus laternatus Garman 1899  
Sternoptyx pseudobscura Baird 1971  
Sternoptyx diaphana Hermann 1781  
Argyropelecus gigas Norman 1930  
Argyropelecus affinis Garman 1899  
Argyropelecus hemigymnus Cocco 1829  
Argyropelecus aculeatus Valenciennes 1849  
Argyropelecus sladeni Regan 1908  
Sonoda paucilampa Grey  
Sonoda megalophthalma Grey  
Maurolicine type A

E L J  
x x x  
x x  
x  
x x  
x x  
x x x  
x x x  
x  
x

## GONOSTOMATIDAE

Diplophos taenia Guenther  
Manducus maderensis (Johnson)  
Triplophos hemingi (McArdle)  
Bonapartia pedaliota Goode & Bean  
Margrethia obtusirostra Jespersen & Taaning  
Gonostoma atlanticum Norman  
Gonostoma elongatum Guenther  
Gonostoma bathyphilum (Vaillant)  
Cyclothone microdon Guenther  
Cyclothone acclinidens Garman  
Cyclothone pallida Brauer  
Cyclothone obscura Brauer  
Cyclothone alba Brauer  
Cyclothone braueri Jespersen & Taaning  
Cyclothone parapallida  
Cyclothone pseudopallida Bond & Tighe 1974

x  
x x  
x x  
x x  
x x  
x x  
x x  
x

## PHOTICHTHYIDAE

<u>Polymetme corythaeola</u> (Alcock)	x
<u>Pollichthys mauli</u> (Poll)	x
<u>Woodsia nonsuchae</u> (Beebe)	x
<u>Ichthyococcus ovatus</u> (Cocco)	x x
<u>Ichthyococcus polli</u> Blache	x x
<u>Vinciguerria nimbaria</u> (Jordan & Williams)	x x x
<u>Vinciguerria poweriae</u> (Cocco)	x x x
<u>Vinciguerria attenuata</u> (Cocco)	x x x
<u>Yarella blackfordi</u> Goode & Bean	x

## Literature:

Ahlstrom et al. 1984; Sanzo 1931d; Badcock 1982; Sanzo 1930b; Ahlstrom & Counts 1958; Sanzo 1928; Mito 1961a; Baird 1971; Ozawa, T. & K. Oda. 1986. Early ontogeny and description of three species of the gonostomatid genus Diplophos in the western North Pacific. Pages 74-84 in T. Ozawa (ed.). Studies on the oceanic ichthyoplankton in the western North Pacific. Kyushu Univ. Press, Tokyo. 430 pp.; Smith, D. G., K. E. Hartel, & J. E. Craddock. 1990. Larval development, relationships, and distribution of Manducus maderensis, with comments on the transformation of M. greyae (Pisces, Stomiiformes). Breviora [In Press].

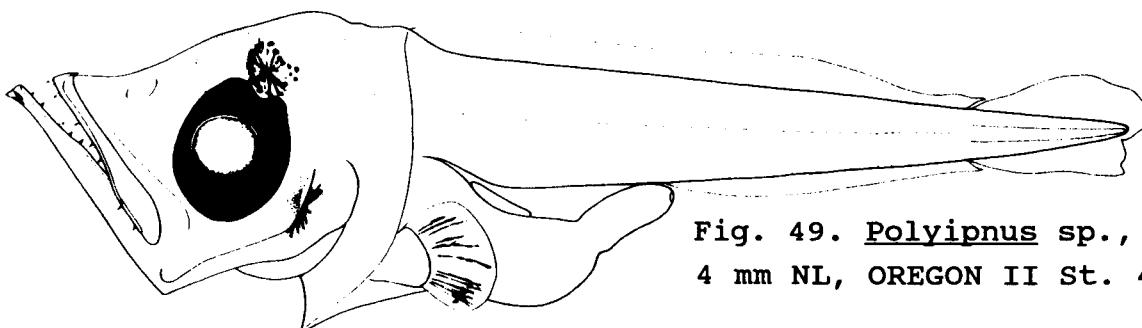


Fig. 49. Polyipnus sp.,  
4 mm NL, OREGON II St. 45414.

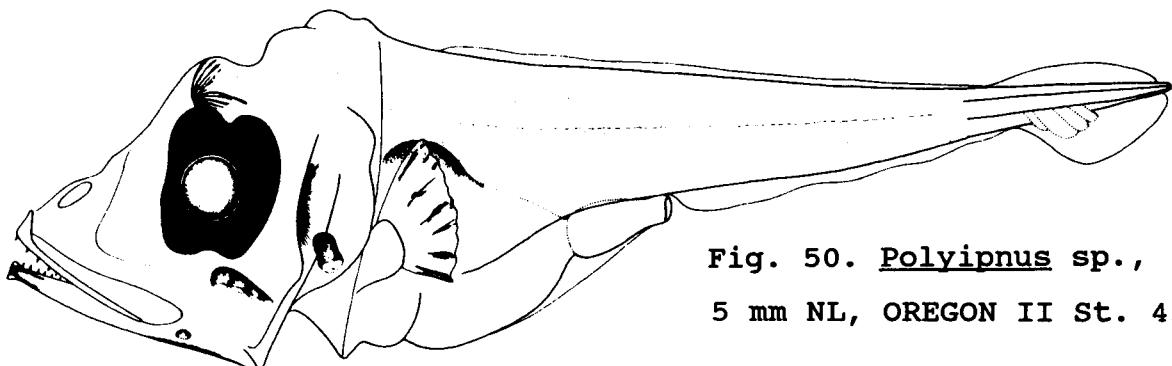


Fig. 50. Polyipnus sp.,  
5 mm NL, OREGON II St. 45420.

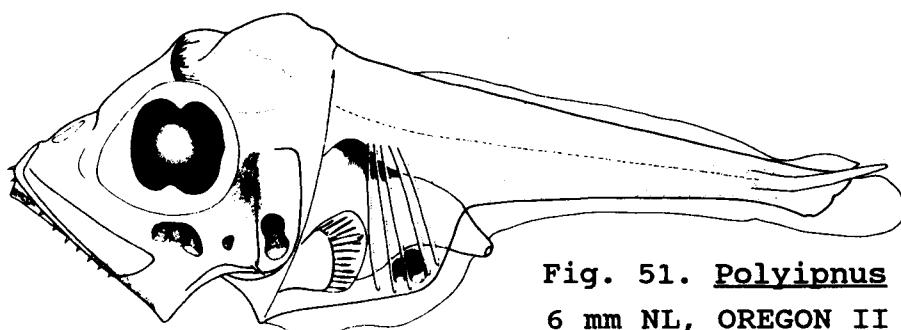


Fig. 51. Polyipnus sp.,  
6 mm NL, OREGON II St. 45420.

Fig. 52. Bonapartia pedaliota, 14.5 mm, SL OREGON II St. 47582.

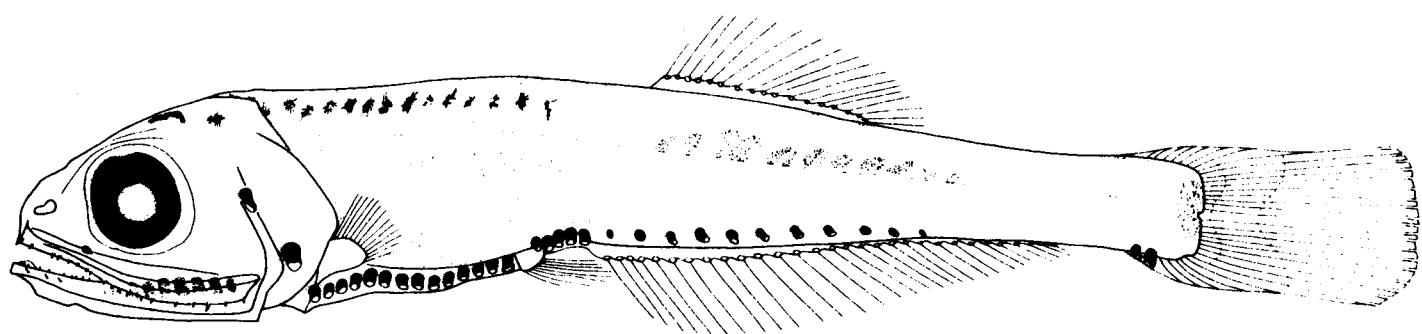
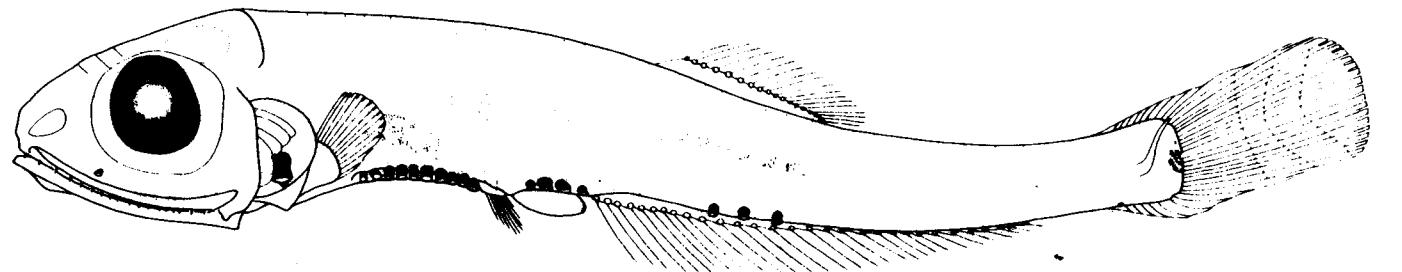


Fig. 53. Bonapartia pedaliota, 20.1 mm, SL OREGON II St. 47582.

	E L J
STOMIIDAE	
<u>Stomias affinis</u> Guenther	
<u>Stomias boa</u> Reinhardt	X X
<u>Stomias brevibarbata</u> Ege	X
<u>Stomias colubrinus</u> Garman	X
<u>Macrostomias longibarbatus</u> Brauer	X

Literature: Ege 1918; Sanzo 1912, 1931d; Pertseva-Ostrumova & Rass 1973; Kawaguchi & Moser 1984

	E L J
STROMATEIDAE	
<u>Peprilus triacanthus</u> (Peck)	X X
<u>Peprilus burti</u> Fowler	X X
<u>Peprilus alepidotus</u> (Linnaeus)	X X
<u>Peprilus paru</u> (Linnaeus)	

Literature:  
Haedrich 1967; Horn 1984; Ditty & Truesdale 1983

	E L J
STYLEPHORIDAE	X X
<u>Stylephorus chordatus</u> Shaw	

Literature:  
Olney 1984

	E L J
SYMPHYSANODONTIDAE	
<u>Sympysanodon berryi</u> Anderson	X X
<u>Sympysanodon octoactinus</u> Anderson	

Literature: Johnson 1984; Anderson, W. D. Jr. 1970. Revision of Sympysanodon. Fish. Bull. U. S. 68(2): 325-346.

## SYNAPHOBRANCHIDAE

E L J

<u>Simenchelys parasitica</u> Gill	
<u>Synaphobranchus kaupi</u> Johnson	x
<u>Synaphobranchus affinis</u> Guenther	
<u>Synaphobranchus oregoni</u> Castle	
<u>Synaphobranchus brevidorsalis</u> Guenther	
<u>Synaphobranchus capensis</u> Barnard	
<u>Synaphobranchus bathybius</u> Guenther	
<u>Synaphobranchus</u> species	x
<u>Haptenchelys texis</u> Robins & Martin	
<u>Ilyophis brunneus</u> Gilbert	
<u>Atractodenchelys phrix</u> Robins & Robins	
<u>Dysommina rugosa</u> Ginsburg	
<u>Dysomma anquillare</u> Barnard	x
<u>Dysomma brevirostre</u> (Facciola)	x
<u>Dysomma tridens</u> Robins, Boehlke, & Robins	x
<u>Leptocephalus rostratus</u> Schmidt	x
<u>Leptocephalus proboscideus</u> Lea	x
<u>Leptocephalus dolichorhynchus</u> Lea	x
Species A <sub>5</sub>	x
Species B <sub>5</sub>	x
Species B <sub>7</sub>	x
Species B <sub>11</sub>	x
Species C <sub>1</sub>	x
Species C <sub>2</sub>	x
Species D <sub>3</sub>	x
Species D <sub>4</sub>	x
Species D <sub>5</sub>	x
Species D <sub>7</sub>	x
Species D <sub>11</sub>	x

Literature: Smith 1989; Robins and Robins 1989

## SYNGNATHIDAE

	E	L	J
<u>Acentronura dendritica</u> (Barbour)	x	x	
<u>Penetopteryx nanus</u> (Rosen)	x	x	
<u>Oostethus brachyurus lineatus</u> Kaup	x	x	
<u>Micrognathus crinitus</u> (Jenyns)	x	x	
<u>Micrognathus erugatus</u> Herald & Dawson	x	x	
<u>Anarchopterus criniger</u> (Bean & Dresel)	x	x	
<u>Anarchopterus tectus</u> (Dawson)	x	x	
<u>Pseudophallus mindii</u> (Meek & Hildebrand)	x	x	
<u>Syngnathus floridae</u> (Jordan & Gilbert)	x	x	
<u>Syngnathus springeri</u> Herald	x	x	
<u>Syngnathus louisianae</u> Guenther	x	x	
<u>Syngnathus fuscus</u> Storer	x	x	
<u>Syngnathus scovelli</u> (Evermann & Kendall)	x	x	
<u>Syngnathus affinis</u> Guenther	x	x	
<u>Syngnathus makaxi</u> Herald & Dawson	x	x	
<u>Syngnathus caribbaeus</u> Dawson	x	x	
<u>Syngnathus dawsoni</u> (Herald)	x	x	
<u>Syngnathus pelagicus</u> Linnaeus	x	x	
<u>Bryx dunckeri</u> (Metzelaar)	x	x	
<u>Bryx randalli</u> (Herald)	x	x	
<u>Cosmocampus albirostris</u> (Kaup)	x	x	
<u>Cosmocampus profundus</u> (Herald)	x	x	
<u>Cosmocampus brachycephalus</u> (Poey)	x	x	
<u>Cosmocampus elucens</u> (Poey)	x	x	
<u>Cosmocampus hildebrandi</u> (Herald)	x	x	
<u>Hippocampus zosterae</u> Jordan & Gilbert	x	x	
<u>Hippocampus reidi</u> Ginsburg	x	x	
<u>Hippocampus erectus</u> Perry	x	x	

## Literature:

Dawson &amp; Vari 1982 (FWNA - 8)

## SYNODONTIDAE

	E	L	J
<u>Synodus intermedius</u> (Agassiz)			
<u>Synodus poeyi</u> Jordan			
<u>Synodus saurus</u> (Linnaeus)		x	x
<u>Synodus foetens</u> (Linnaeus)		x	x
<u>Synodus synodus</u> (Linnaeus)		x	x
<u>Trachinocephalus myops</u> (Forster)		x	x

## Literature:

Okiyama 1984; Anderson, Berry, &amp; Gehringer 1966; Gibbs 1959

## TETRAGONURIDAE

	E	L	J
<u>Tetragonurus atlanticus</u> Lowe	x	x	
<u>Tetragonurus cuvieri</u> Risso	x	x	

## Literature:

Haedrich 1967; Ahlstrom et al. 1976

## TETRAODONTIDAE

- Canthigaster rostrata (Bloch)  
Lagocephalus laevigatus (Linnaeus)  
Lagocephalus lagocephalus (Linnaeus)  
Sphoeroides dorsalis Longley  
Sphoeroides maculatus (Bloch & Schneider)  
Sphoeroides nephelus (Goode & Bean)  
Sphoeroides pachygaster (Mueller & Troschel)  
Sphoeroides parvus Shipp & Verger  
Sphoeroides spengleri (Bloch)  
Sphoeroides testudineus (Linnaeus)  
Sphoeroides greeleyi Gilbert  
Sphoeroides georgemilleri Shipp  
Sphoeroides tyleri Shipp  
Sphoeroides yergeri Shipp  
Colomesus asellus (Mueller & Troschel)  
Colomesus psittacus (Bloch & Schneider)

E L J  
x

## Literature:

Leis 1984;

## THAUMATICHTHYIDAE

- Lasiognathus saccostoma Regan  
Thaumanichthys pagidostomus Smith & Radcliffe  
Amacrodon binghami (Parr)

E L J  
x

## Literature:

Berterlsen 1951, 1984, Pietsch 1972

## TRACHICHTHYIDAE

- Gephyroberyx darwini Johnson  
Hoplostethus mediterraneus Cuvier  
Hoplostethus occidentalis Woods  
Paratrachichthys argyrophanus Woods

E L J

## Literature:

Keene &amp; Tighe 1984

## TRACHIPTERIDAE

- Desmodema polystictum (Ogilby)  
Trachipterus arcticus (Bruennich)  
Trachipterus trachyurus Poey  
Zu cristatus (Bonelli)

E L J  
x  
x x x

## Literature:

Olney 1984

E L J

## TRIACANTHODIDAE

- Hollardia meadi Tyler  
Hollardia hollardi Poey  
Parahollardia schmidti Woods  
Parahollardia lineata (Longley)  
Johnsonina eriomma Myers

## Literature:

Tyler, J.C. 1966. Not. Nat. (382):1-8. Woods, L.P. 1959. Copeia (3):222-225; Aboussouan & Leis 1984; Leis & Trnski 1989

## TRICHIURIDAE

E L J

- Aphanopus carbo Lowe  
Assurger anzac (Alexander)  
Benthodesmus simonyi (Steindachner)  
Benthodesmus tenuis (Guenther) x  
Evoxymetopon taeniatus (Poey)  
Lepidotus caudatus (Euphrasen) xxx  
Trichiurus lepturus Linnaeus xx

Literature: Collette et al 1984; Richards 1989

## TRIGLIDAE

E L J

- Bellator brachychir (Regan)  
Bellator egretta (Goode & Bean)  
Bellator militaris (Goode & Bean)  
Bellator ribeiroi Miller  
Prionotus carolinus Linnaeus xxx  
Prionotus martis Ginsburg  
Prionotus scitulus Jordan & Gilbert  
Prionotus roseus Jordan & Evermann  
Prionotus ophryas Jordan & Swain  
Prionotus stearnsi Jordan & Swain  
Prionotus rubio Jordan  
Prionotus punctatus (Bloch)  
Prionotus tibulus Cuvier  
Prionotus evolans Linnaeus xxx  
Prionotus alatus Goode & Bean  
Prionotus paralatus Ginsburg  
Prionotus beanii Goode  
Prionotus murieli Mowbray  
Prionotus longispinosus Teague

Literature: Fritzsche 1978; Washington et al. 1984; Yuschak 1982; Yuschak, P. and W. A. Lund. 1984. Eggs, larvae, and osteological development of the northern searobin, Prionotus carolinus (Pisces, Triglidae). Jour. Northw. Atl. Fish. Sci. 5:1-15. Miller, G. C. and W. J. Richards. (in press) Revision of the western Atlantic and eastern Pacific genus Bellator (Pisces: Triglidae). Bull. Mar. Sci.

## URANOSCOPIIDAE

E L J

- Astroscopus y-graecum (Cuvier)  
Gnathagnus egregius (Jordan & Thompson)  
Kathetostoma alboguttata (Bean)  
Kathetostoma cubana (Jordan & Thompson)

Literature: Leis & Trnski 1989; FAO List

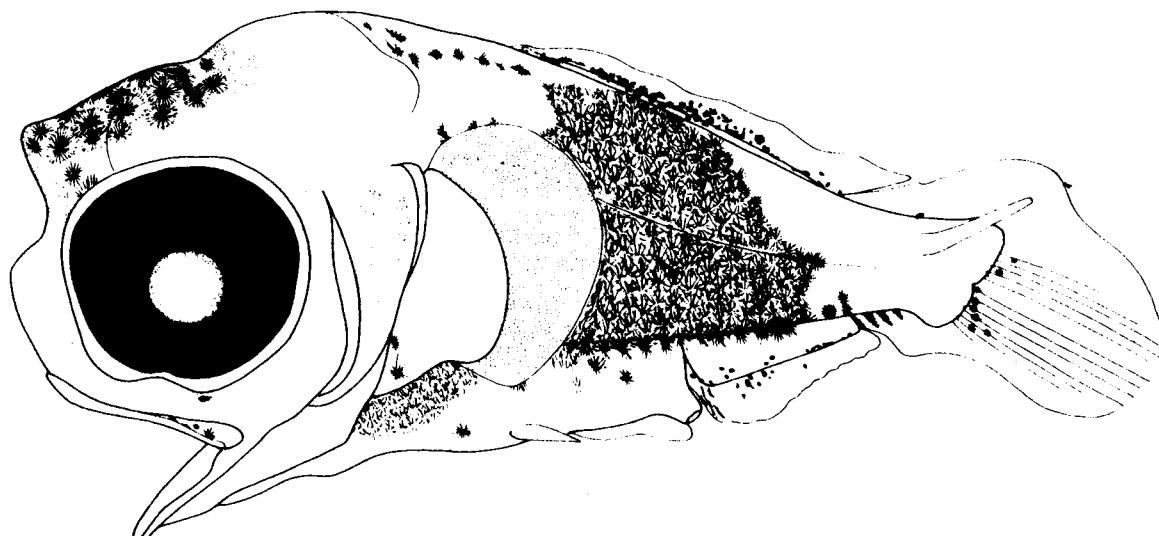


Fig. 54. Uranoscopidae, 2.9 mm NL, OREGON II St. 45459.

## XIPHIIDAE

E L J  
x x x

- Xiphias gladius Linnaeus

Literature: Collette et al. 1984; Richards 1989

## ZEIDAE

E L J

- Cytopsis rosea (Lowe)  
Zenopsis conchifera (Lowe)

Literature:

Tighe & Keene 1984; Heemstra 1980. Z. ocellata (Storer) is listed for Florida Straits by Staiger (Diss. Ph.D.)

## ZENIONTIDAE

E L J

- Zenion hololepis (Goode & Bean)

Literature:

Tighe & Keene 1984

## ZOARCIDAE

E L J

Melanostigma gelatinosum Guenther  
Exechodontes daidaleus DeWitt  
Lycenchelys bullisi Cohen  
Pachycara bulbiceps (Garman)  
Lycodes brunneus Fowler

## Literature:

Anderson 1984; M. Eric Anderson and Alex E. Peden. 1988. The eelpout genus Pachycara (Teleostei:Zoarcidae) in the northeastern Pacific Ocean, with descriptions of two new species. Proc. Calif. Acad. Sci. 46(3):83-94; DeWitt, H. H. 1977. A new genus and species of eelpout (Pisces, Zoarcidae) from the Gulf of Mexico. Fish. Bull. U. S. 75:789-793.